GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: August 21, 2004, 15:09:35 ; Search time 588.895 Seconds
(without alignments)
6964.965 Million cell updates/sec

Title: US-09-648-310-3
Perfect score: 835
Sequence: 1 ggcacgaggcttgagcgcag.....taaagacatgtaactgtctt 835

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 3228839 seqs, 2456066551 residues

Total number of hits satisfying chosen parameters: 6457678

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_NA:*
1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq:*
3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq:*
4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq:*
5: /cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq:*
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11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq:*
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13: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq2:*
14: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
15: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
16: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq:*
17: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq:*
18: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:*
19: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
	1	835	100.0	835	13	US-10-373-556-3	Sequence 3, Appli
	2	835	100.0	835	13	US-10-373-556-6	Sequence 6, Appli
	3	762.6	91.3	876	13	US-10-342-887-156	Sequence 156, App
	4	762.6	91.3	876	13	US-10-172-118-156	Sequence 156, App
	5	747	89.5	786	17	US-10-641-643-79	Sequence 79, Appl
	6	619.4	74.2	778	9	US-09-925-300-545	Sequence 545, App
c	7	542.8	65.0	552	9	US-09-920-300A-939	Sequence 939, App
c	8	542.8	65.0	552	14	US-10-033-528-939	Sequence 939, App
c	9	542.8	65.0	552	15	US-10-099-926-939	Sequence 939, App
	10	469.8	56.3	483	13	US-10-085-783A-56189	Sequence 56189, A
	11	469.8	56.3	483	16	US-10-242-535A-56189	Sequence 56189, A
	12	450.2	53.9	594	12	US-09-969-034-750	Sequence 750, App
	13	436.8	52.3	717	12	US-09-969-034-748	Sequence 748, App
c	14	382.4	45.8	406	9	US-09-880-107-687	Sequence 687, App
	15	381	45.6	400	13	US-10-085-783A-21733	Sequence 21733, A
	16	381	45.6	400	16	US-10-242-535A-21733	Sequence 21733, A
c	17	364	43.6	365	9	US-09-878-178-2101	Sequence 2101, Ap
c	18	364	43.6	365	14	US-10-046-935-2101	Sequence 2101, Ap
c	19	364	43.6	365	15	US-10-146-502-2101	Sequence 2101, Ap
	20	335.2	40.1	780	13	US-10-373-556-1	Sequence 1, Appli
	21	335.2	40.1	780	13	US-10-373-556-5	Sequence 5, Appli
	22	310	37.1	800	17	US-10-725-969A-26	Sequence 26, Appl
c	23	279.4	33.5	627	12	US-09-969-034-557	Sequence 557, App
	24	237	28.4	458	10	US-09-918-995-26075	Sequence 26075, A
	25	188.4	22.6	388	9	US-09-925-299-318	Sequence 318, App
	26	188.4	22.6	388	10	US-09-925-299-318	Sequence 318, App
	27	170.2	20.4	611	10	US-09-871-161-376	Sequence 376, App
	28	109.4	13.1	486	9	US-09-938-842A-355	Sequence 355, App
	29	109.4	13.1	486	11	US-09-938-842A-355	Sequence 355, App
c	30	109.4	13.1	492	10	US-09-770-961-618	Sequence 618, App
	31	98.6	11.8	533	13	US-10-425-114-19867	Sequence 19867, A
	32	96.2	11.5	818	17	US-10-437-963-43648	Sequence 43648, A
c	33	91	10.9	716	13	US-10-424-599-94878	Sequence 94878, A
	34	69.8	8.4	268	9	US-09-294-093B-2020	Sequence 2020, Ap
	35	60	7.2	60	10	US-09-908-975-22102	Sequence 22102, A
	36	55	6.6	3673778	15	US-10-312-841-1	Sequence 1, Appli
	37	54.2	6.5	3673778	15	US-10-312-841-2	Sequence 2, Appli
	38	52.2	6.3	113515	15	US-10-311-455-2147	Sequence 2147, Ap
	39	50.6	6.1	6073	15	US-10-311-455-1515	Sequence 1515, Ap
	40	50	6.0	50	16	US-10-131-827-722	Sequence 722, App
	41	50	6.0	6020	15	US-10-204-708-8	Sequence 8, Appli
	42	50	6.0	6020	15	US-10-311-455-172	Sequence 172, App
	43	49.6	5.9	5467	15	US-10-311-455-2082	Sequence 2082, Ap
c	44	49.4	5.9	14950	15	US-10-311-455-1230	Sequence 1230, Ap
	45	49.2	5.9	5488	15	US-10-311-455-1429	Sequence 1429, Ap

ALIGNMENTS

RESULT 1
US-10-373-556-3
; Sequence 3, Application US/10373556
; Publication No. US20030224402A1
; GENERAL INFORMATION:
; APPLICANT: Paul B. Fisher
; APPLICANT: Dong-chul Kang
; APPLICANT: Zao-Zhong Su
; TITLE OF INVENTION: PROGRESSION SUPPRESSED GENE 13 (PSGen13)
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: A34586-A-PCT-USA (070050.2305)
; CURRENT APPLICATION NUMBER: US/10/373,556
; CURRENT FILING DATE: 2003-02-24
; PRIOR APPLICATION NUMBER: PCT/US01/26795
; PRIOR FILING DATE: 2001-08-27
; PRIOR APPLICATION NUMBER: 09/648,310
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 835
; TYPE: DNA
; ORGANISM: homo sapiens
US-10-373-556-3

Query Match 100.0%; Score 835; DB 13; Length 835;
Best Local Similarity 100.0%; Pred. No. 1.3e-196;
Matches 835; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 GGCACGAGGCTTGAGCGCAGAAACACTTACTTTTCCCCCTACCCTGCTCCTCCTCCTCCA 60
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Db          1 GGCACGAGGCTTGAGCGCAGAAACACTTACTTTTCCCCCTACCCTGCTCCTCCTCCTCCA 60

Qy         61 CAGCCGTCTTTCTCTTTGCCTCAGCCACTTCCTTCCTTCGCCTCACCCTCCCCAGTGCAC 120
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Db         61 CAGCCGTCTTTCTCTTTGCCTCAGCCACTTCCTTCCTTCGCCTCACCCTCCCCAGTGCAC 120
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Qy        121 TGAAGAAGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAAACC 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 TGAAGAAGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAAACC 180

Qy        181 GCGCAGAGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAATTCA 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 GCGCAGAGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAATTCA 240

Qy        241 TCGTTTGGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCG 300
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Qy        301 TGATGATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACG 360
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Db        301 TGATGATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACG 360

Qy        361 AAGGAAGATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGATGTTGA 420
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Db        361 AAGGAAGATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGATGTTGA 420

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Db        421 CATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCATTTTTTGTT 480

Qy        481 TCTGGTAAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTTAATGTATTTTT 540
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Db        481 TCTGGTAAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTTAATGTATTTTT 540

Qy        541 ATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTTTTTTATATCTT 600
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Db        541 ATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTTTTTTATATCTT 600

Qy        601 GAAAGAAAATCTATGTATGATGCTATAAAATAAATCCTATTATTTTTCTCAGGAATCTGG 660
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Db        601 GAAAGAAAATCTATGTATGATGCTATAAAATAAATCCTATTATTTTTCTCAGGAATCTGG 660

Qy        661 TTAGGAATTGCAGGCAATGAGATTTTTTGCGGGGCAGGGATGGGAATGTTTGTTCATAAA 720
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Db        661 TTAGGAATTGCAGGCAATGAGATTTTTTGCGGGGCAGGGATGGGAATGTTTGTTCATAAA 720

Qy        721 TAATTAGACATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGCAAACTGAAGAC 780
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Db        721 TAATTAGACATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGCAAACTGAAGAC 780

Qy        781 CAACTCCTATGAGAAATATTATGATGTTTATGTAATAAAGACATGTAACTGTCTT 835
              |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        781 CAACTCCTATGAGAAATATTATGATGTTTATGTAATAAAGACATGTAACTGTCTT 835
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RESULT 2
US-10-373-556-6
; Sequence 6, Application US/10373556
; Publication No. US20030224402A1
; GENERAL INFORMATION:
; APPLICANT: Paul B. Fisher
; APPLICANT: Dong-chul Kang
; APPLICANT: Zao-Zhong Su
; TITLE OF INVENTION: PROGRESSION SUPPRESSED GENE 13 (PSGen13)
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: A34586-A-PCT-USA (070050.2305)
; CURRENT APPLICATION NUMBER: US/10/373,556
; CURRENT FILING DATE: 2003-02-24
; PRIOR APPLICATION NUMBER: PCT/US01/26795
; PRIOR FILING DATE: 2001-08-27
; PRIOR APPLICATION NUMBER: 09/648,310
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 835
; TYPE: DNA
; ORGANISM: homo sapiens
US-10-373-556-6

Query Match 100.0%; Score 835; DB 13; Length 835;
Best Local Similarity 100.0%; Pred. No. 1.3e-196;
Matches 835; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 GGCACGAGGCTTGAGCGCAGAAACACTTACTTTTCCCCCTACCCTGCTCCTCCTCCTCCA 60
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Db          1 GGCACGAGGCTTGAGCGCAGAAACACTTACTTTTCCCCCTACCCTGCTCCTCCTCCTCCA 60

Qy         61 CAGCCGTCTTTCTCTTTGCCTCAGCCACTTCCTTCCTTCGCCTCACCCTCCCCAGTGCAC 120
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Db         61 CAGCCGTCTTTCTCTTTGCCTCAGCCACTTCCTTCCTTCGCCTCACCCTCCCCAGTGCAC 120

Qy        121 TGAAGAAGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAAACC 180
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Db        121 TGAAGAAGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAAACC 180

Qy        181 GCGCAGAGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAATTCA 240
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Db        181 GCGCAGAGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAATTCA 240

Qy        241 TCGTTTGGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCG 300
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Qy        301 TGATGATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACG 360
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Db        361 AAGGAAGATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGATGTTGA 420

Qy        421 CATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCATTTTTTGTT 480
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 CATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCATTTTTTGTT 480

Qy        481 TCTGGTAAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTTAATGTATTTTT 540
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 TCTGGTAAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTTAATGTATTTTT 540

Qy        541 ATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTTTTTTATATCTT 600
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Db        541 ATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTTTTTTATATCTT 600

Qy        601 GAAAGAAAATCTATGTATGATGCTATAAAATAAATCCTATTATTTTTCTCAGGAATCTGG 660
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Db        601 GAAAGAAAATCTATGTATGATGCTATAAAATAAATCCTATTATTTTTCTCAGGAATCTGG 660

Qy        661 TTAGGAATTGCAGGCAATGAGATTTTTTGCGGGGCAGGGATGGGAATGTTTGTTCATAAA 720
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        661 TTAGGAATTGCAGGCAATGAGATTTTTTGCGGGGCAGGGATGGGAATGTTTGTTCATAAA 720

Qy        721 TAATTAGACATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGCAAACTGAAGAC 780
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        721 TAATTAGACATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGCAAACTGAAGAC 780

Qy        781 CAACTCCTATGAGAAATATTATGATGTTTATGTAATAAAGACATGTAACTGTCTT 835
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Db        781 CAACTCCTATGAGAAATATTATGATGTTTATGTAATAAAGACATGTAACTGTCTT 835
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RESULT 3
US-10-342-887-156
; Sequence 156, Application US/10342887
; Publication No. US20040058340A1
; GENERAL INFORMATION:
; APPLICANT: Dai, Hongyue
; APPLICANT: He, Yudong
; APPLICANT: Linsley, Peter S.
; APPLICANT: Mao, Mao
; APPLICANT: Roberts, Christopher J.
; APPLICANT: Van 't Veer, Laura Johanna

```
;  APPLICANT:  Van de Vijver, Marc J.
;  APPLICANT:  Bernards, Rene
;  TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
;  FILE REFERENCE: 9301-188-999
;  CURRENT APPLICATION NUMBER: US/10/342,887
;  CURRENT FILING DATE:  2003-01-15
;  PRIOR APPLICATION NUMBER: 60/298,918
;  PRIOR FILING DATE: 2001-06-18
;  PRIOR APPLICATION NUMBER: 60/380,710
;  PRIOR FILING DATE: 2002-05-14
;  PRIOR APPLICATION NUMBER: 10/172,118
;  PRIOR FILING DATE: 2002-06-14
;  NUMBER OF SEQ ID NOS: 2699
; SEQ ID NO 156
;   LENGTH: 876
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-342-887-156

  Query Match             91.3%;  Score 762.6;  DB 13;  Length 876;
  Best Local Similarity   99.5%;  Pred. No. 1.2e-178;
  Matches  765;  Conservative    0;  Mismatches    4;  Indels    0;  Gaps    0;

Qy         67 TCTTTCTCTTTGCCTCAGCCACTTCCTTCCTTCGCCTCACCCTCCCCAGTGCACTGAAGA 126
               | ||| | ||||||||||||||||||||||||| ||||||||||||||||||||||||||
Db          6 TTTTTTTTTTTGCCTCAGCCACTTCCTTCCTTGGCCTCACCCTCCCCAGTGCACTGAAGA 65

Qy        127 AGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAAACCGCGCAG 186
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Qy        187 AGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAATTCATCGTTT 246
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        126 AGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAATTCATCGTTT 185

Qy        247 GGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCGTGATGA 306
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Db        186 GGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCGTGATGA 245

Qy        307 TAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACGAAGGAA 366
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        246 TAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACGAAGGAA 305

Qy        367 GATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGATGTTGACATTAT 426
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        306 GATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGATGTTGACATTAT 365

Qy        427 ATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCATTTTTTGTTTCTGGT 486
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        366 ATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCATTTTTTGTTTCTGGT 425

Qy        487 AAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTTAATGTATTTTTATAGAA 546
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        426 AAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTTAATGTATTTTTATAGAA 485

Qy        547 CTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTTTTTTATATCTTGAAAGA 606
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        486 CTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTTTTTTATATCTTGAAAGA 545

Qy        607 AAATCTATGTATGATGCTATAAAATAAATCCTATTATTTTTCTCAGGAATCTGGTTAGGA 666
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        546 AAATCTATGTATGATGCTATAAAATAAATCCTATTATTTTTCTCAGGAATCTGGTTAGGA 605

Qy        667 ATTGCAGGCAATGAGATTTTTTGCGGGGCAGGGATGGGAATGTTTGTTCATAAATAATTA 726
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        606 ATTGCAGGCAATGAGATTTTTTGCGGGGCAGGGATGGGAATGTTTGTTCATAAATAATTA 665

Qy        727 GACATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGCAAACTGAAGACCAACTC 786
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        666 GACATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGCAAACTGAAGACCAACTC 725

Qy        787 CTATGAGAAATATTATGATGTTTATGTAATAAAGACATGTAACTGTCTT 835
              |||||||||||||||||||||||||||||||||||||||||||||||||
Db        726 CTATGAGAAATATTATGATGTTTATGTAATAAAGACATGTAACTGTCTT 774


RESULT 4
US-10-172-118-156
; Sequence 156, Application US/10172118
; Publication No. US20030224374A1
; GENERAL INFORMATION:
;  APPLICANT: Dai, Hongyue
;  APPLICANT:  He, Yudong
;  APPLICANT:  Linsley, Peter
;  APPLICANT:  Mao, Mao
;  APPLICANT:  Roberts, Chris
;  APPLICANT:  Van 't Veer, Laura
;  APPLICANT:  Van de Vijver, Marc
;  APPLICANT:  Bernards, Rene
;  TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
;  FILE REFERENCE: 9301-175-999
;  CURRENT APPLICATION NUMBER: US/10/172,118
;  CURRENT FILING DATE:  2002-06-14
;  PRIOR APPLICATION NUMBER: 60/380,770
;  PRIOR FILING DATE: 2002-05-14
;  NUMBER OF SEQ ID NOS: 2699
; SEQ ID NO 156
;   LENGTH: 876
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;  PUBLICATION INFORMATION:
;   DATABASE ACCESSION NUMBER: AF116682
;   DATABASE ENTRY DATE: 2001-06-18
US-10-172-118-156

  Query Match             91.3%;  Score 762.6;  DB 13;  Length 876;
  Best Local Similarity   99.5%;  Pred. No. 1.2e-178;
  Matches  765;  Conservative    0;  Mismatches    4;  Indels    0;  Gaps    0;

Qy         67 TCTTTCTCTTTGCCTCAGCCACTTCCTTCCTTCGCCTCACCCTCCCCAGTGCACTGAAGA 126
               | ||| | ||||||||||||||||||||||||| ||||||||||||||||||||||||||
Db          6 TTTTTTTTTTTGCCTCAGCCACTTCCTTCCTTGGCCTCACCCTCCCCAGTGCACTGAAGA 65

Qy        127 AGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAAACCGCGCAG 186
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         66 AGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAAACCGCGCAG 125

Qy        187 AGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAATTCATCGTTT 246
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        126 AGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAATTCATCGTTT 185

Qy        247 GGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCGTGATGA 306
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        186 GGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCGTGATGA 245

Qy        307 TAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACGAAGGAA 366
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        246 TAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACGAAGGAA 305

Qy        367 GATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGATGTTGACATTAT 426
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        306 GATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGATGTTGACATTAT 365

Qy        427 ATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCATTTTTTGTTTCTGGT 486
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        366 ATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCATTTTTTGTTTCTGGT 425

Qy        487 AAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTTAATGTATTTTTATAGAA 546
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        426 AAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTTAATGTATTTTTATAGAA 485

Qy        547 CTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTTTTTTATATCTTGAAAGA 606
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        486 CTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTTTTTTATATCTTGAAAGA 545

Qy        607 AAATCTATGTATGATGCTATAAAATAAATCCTATTATTTTTCTCAGGAATCTGGTTAGGA 666
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Db        546 AAATCTATGTATGATGCTATAAAATAAATCCTATTATTTTTCTCAGGAATCTGGTTAGGA 605

Qy        667 ATTGCAGGCAATGAGATTTTTTGCGGGGCAGGGATGGGAATGTTTGTTCATAAATAATTA 726

Db        606 ATTGCAGGCAATGAGATTTTTTGCGGGGCAGGGATGGGAATGTTTGTTCATAAATAATTA 665

Qy        727 GACATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGCAAACTGAAGACCAACTC 786

Db        666 GACATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGCAAACTGAAGACCAACTC 725

Qy        787 CTATGAGAAATATTATGATGTTTATGTAATAAAGACATGTAACTGTCTT 835

Db        726 CTATGAGAAATATTATGATGTTTATGTAATAAAGACATGTAACTGTCTT 774


RESULT 5
US-10-641-643-79
; Sequence 79, Application US/10641643
; Publication No. US20040077003A1
;   GENERAL INFORMATION:
;        APPLICANT: Cocks, Benjamin G.
;                   Susan G. Stuart
;                   Jeffrey J. Seilhamer
;        TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL
;                            GENE EXPRESSION
;        NUMBER OF SEQUENCES: 1508
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
;             STREET: 3174 PORTER DRIVE
;             CITY: PALO ALTO
;             STATE: CALIFORNIA
;             COUNTRY: USA
;             ZIP: 94304
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/641,643
;             FILING DATE: 14-Aug-2003
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: <Unknown>
;             FILING DATE: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Zeller, Karen J.
;             REGISTRATION NUMBER: 37,071
;             REFERENCE/DOCKET NUMBER: PA-0001 US
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (650) 855-0555
;             TELEFAX: (650) 845-4166
;   INFORMATION FOR SEQ ID NO: 79:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 786 base pairs
;             TYPE: nucleic acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;        IMMEDIATE SOURCE:
;             LIBRARY: THP1PLB01
;             CLONE: 012364
;        SEQUENCE DESCRIPTION: SEQ ID NO: 79 :
US-10-641-643-79

  Query Match             89.5%;  Score 747;  DB 17;  Length 786;
  Best Local Similarity   99.0%;  Pred. No. 8.5e-175;
  Matches  773;  Conservative    0;  Mismatches    5;  Indels    3;  Gaps    2;

Qy         58 CCACAGCCGTCTTTCTCTTTGCCTCAGCCACTTCCTTCCTTCGCCTCACCCTCCCCAGTG 117

Db          1 CCACAGCCGTCTTTCTCTTTGCCTCAGCCACTTCCTTCCTTGGCCTCACCCTCCCCAGTG 60

Qy        118 CACTGAAGAAGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAA 177

Db         61 CACTGAAGAAGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAA 120

Qy        178 ACCGCGCAGAGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAAT 237

Db        121 ACCGCGCAGAGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAAT 180

Qy        238 TCATCGTTTGGGTTCAAAAAATGCTGATGGAAAGTTAAGC--GTGAAATTTGGGGTCCTC 295

Db        181 TCATCGTTTGGGTTCAAAAAATGCTGATGGAAAGTTAAGCCGTGAAATTTTGGGGTCCTC 240

Qy        296 TTCCGTGATGATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGC- 354

Db        241 TTCCGTGATGATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCA 300

Qy        355 AAAACGAAGGAAGATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGA 414

Db        301 AAAACGAAGGAAGATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGA 360

Qy        415 TGTTGACATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCATTT 474

Db        361 TGTTGACATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCATTT 420

Qy        475 TTTGTTTCTGGTAAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTTAATGT 534

Db        421 TTTGTTTCTGGTAAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTTAATGT 480

Qy        535 ATTTTTATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTTTTTTA 594

Db        481 ATTTTTATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTTTTTTA 540

Qy        595 TATCTTGAAAGAAAATCTATGTATGATGCTATAAAATAAATCCTATTATTTTTCTCAGGA 654

Db        541 TATCTTGAAAGAAAATCTATGTATGATGCTATAAAATAAATCCTATTATTTTTCTCAGGA 600

Qy        655 ATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGCGGGGCAGGGATGGGAATGTTTGTT 714

Db        601 ATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGCGGGGCAGGGATGGGAATGTTTGTT 660

Qy        715 CATAAATAATTAGACATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGCAAACT 774

Db        661 CATAAATAATTAGACATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGCAAACT 720

Qy        775 GAAGACCAACTCCTATGAGAAATATTATGATGTTTATGTAATAAAGACATGTAACTGTCT 834

Db        721 GAAGACCAACTCCTATGAGAAATATTATGATGTTTATGTAATAAAGACATGTAACTGTCT 780

Qy        835 T 835

Db        781 T 781


RESULT 6
US-09-925-300-545
; Sequence 545, Application US/09925300
; Patent No. US20020151681A1
; GENERAL INFORMATION:
;  APPLICANT: Craig Rosen,
;  APPLICANT:  Steve Ruben
;  TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
;  FILE REFERENCE: PA101
;  CURRENT APPLICATION NUMBER: US/09/925,300
;  CURRENT FILING DATE:  2001-08-10
;  PRIOR APPLICATION NUMBER: PCT/US00/05988
;  PRIOR FILING DATE: 2000-03-08
;  PRIOR APPLICATION NUMBER: 60/124,270
;  PRIOR FILING DATE: 1999-03-12
;  NUMBER OF SEQ ID NOS: 1890
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 545
;   LENGTH: 778
;   TYPE: DNA
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;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc feature
;   LOCATION: (641)
;   OTHER INFORMATION: n equals a,t,g, or c
;   NAME/KEY: misc feature
;   LOCATION: (652)
;   OTHER INFORMATION: n equals a,t,g, or c
US-09-925-300-545

  Query Match             74.2%;  Score 619.4;  DB 9;  Length 778;
  Best Local Similarity   99.8%;  Pred. No. 3.8e-143;
  Matches  620;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy         26 CTTACTTTTCCCCCCTACCCTGCTCCTCCTCCTCCACAGCCGTCTTTCTCTTTGCCTCAGC 85
              | ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         15 CGTACTTTTCCCCCCTACCCTGCTCCTCCTCCTCCACAGCCGTCTTTCTCTTTGCCTCAGC 74

Qy         86 CACTTCCTTCCTTCGCCTCACCCTCCCCAGTGCACTGAAGAAGGTAACCGGGTCCAGACC 145
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         75 CACTTCCTTCCTTCGCCTCACCCTCCCCAGTGCACTGAAGAAGGTAACCGGGTCCAGACC 134

Qy        146 CACGCGGCGCCAGTTCTCCGGCGGGAAGGAAAACCGCGCAGAGAGGCAGCAATGAATGTG 205
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        135 CACGCGGCGCCAGTTCTCCGGCGGGAAGGAAAACCGCGCAGAGAGGCAGCAATGAATGTG 194

Qy        206 GATCACGAGGTTAACCTCTTAGTGGAGGAAATTCATCGTTTGGGTTCAAAAAATGCTGAT 265
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        195 GATCACGAGGTTAACCTCTTAGTGGAGGAAATTCATCGTTTGGGTTCAAAAAATGCTGAT 254

Qy        266 GGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCGTGATGATAAATGTGCCAACCTCTTT 325
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        255 GGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCGTGATGATAAATGTGCCAACCTCTTT 314

Qy        326 GAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACGAAGGAAGATTGTAACATATCCAGGA 385
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        315 GAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACGAAGGAAGATTGTAACATATCCAGGA 374

Qy        386 GAGCTGCTTCTGCAAGGTGTTCATGATGATGTTGACATTATATTACTGCAAGATTAATGT 445
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        375 GAGCTGCTTCTGCAAGGTGTTCATGATGATGTTGACATTATATTACTGCAAGATTAATGT 434

Qy        446 GGTTTACATATCTTTATGTACTGCCATTTTTTGTTTCTGGTAAACTGGAATATAAAGTGA 505
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        435 GGTTTACATATCTTTATGTACTGCCATTTTTTGTTTCTGGTAAACTGGAATATAAAGTGA 494

Qy        506 AAGAACAAACATTTGAACATACTTAATGTATTTTTATAGAACTTTGTAAACGAAAGGAGA 565
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        495 AAGAACAAACATTTGAACATACTTAATGTATTTTTATAGAACTTTGTAAACGAAAGGAGA 554

Qy        566 TTCATGTTTTAGAAGTCTGTCCTTTTTTATATCTTGAAAGAAAATCTATGTATGATGCTA 625
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        555 TTCATGTTTTAGAAGTCTGTCCTTTTTTATATCTTGAAAGAAAATCTATGTATGATGCTA 614

Qy        626 TAAAATAAATCCTATTATTTT 646
              |||||||||||||||||||||
Db        615 TAAAATAAATCCTATTATTTT 635


RESULT 7
US-09-920-300A-939/c
; Sequence 939, Application US/09920300A
; Patent No. US20020136728A1
; GENERAL INFORMATION:
;  APPLICANT: King, Gordon E.
;  APPLICANT:  Meagher, Madeleine Joy
;  APPLICANT:  Xu, Jiangchun
;  APPLICANT:  Secrist, Heather
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
;  TITLE OF INVENTION:  AND DIAGNOSIS OF COLON CANCER
;  FILE REFERENCE: 210121.547
;  CURRENT APPLICATION NUMBER: US/09/920,300A
;  CURRENT FILING DATE:  2001-07-31
;  NUMBER OF SEQ ID NOS: 1789
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 939
;   LENGTH: 552
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-920-300A-939

  Query Match             65.0%;  Score 542.8;  DB 9;  Length 552;
  Best Local Similarity   99.6%;  Pred. No. 3e-124;
  Matches  544;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy        290 GTCCTCTTCCGTGATGATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAA 349
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        552 GTCCTCTTCCGTGATGATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAA 493

Qy        350 GCTGCAAAACGAAGGAAGATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCAT 409
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        492 GCTGCAAAACGAAGGAAGATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCAT 433

Qy        410 GATGATGTTGACATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGC 469
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        432 GATGATGTTGACATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGC 373

Qy        470 CATTTTTTGTTTCTGGTAAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTT 529
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        372 CATTTTTTGTTTCTGGTAAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTT 313

Qy        530 AATGTATTTTTATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTT 589
              ||||||||||||||||||||||||||||||||||||||||||||||||| ||||||||||
Db        312 AATGTATTTTTATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGCCTGTCCTT 253

Qy        590 TTTTATATCTTGAAAGAAAATCTATGTATGATGCTATAAAATAAATCCTATTATTTTTCT 649
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        252 TTTTATATCTTGAAAGAAAATCTATGTATGATGCTATAAAATAAATCCTATTATTTTTCT 193

Qy        650 CAGGAATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGCGGGGCAGGGATGGGAATGT 709
              ||||||||||||||||||||||||||||||||||||||||||||||| ||||||||||||
Db        192 CAGGAATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGCGGGGCAAGGATGGGAATGT 133

Qy        710 TTGTTCATAAATAATTAGACATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGC 769
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        132 TTGTTCATAAATAATTAGACATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGC 73

Qy        770 AAACTGAAGACCAACTCCTATGAGAAATATTATGATGTTTATGTAATAAAGACATGTAAC 829
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         72 AAACTGAAGACCAACTCCTATGAGAAATATTATGATGTTTATGTAATAAAGACATGTAAC 13

Qy        830 TGTCTT 835
              ||||||
Db         12 TGTCTT 7


RESULT 8
US-10-033-528-939/c
; Sequence 939, Application US/10033528
; Publication No. US20020131971A1
; GENERAL INFORMATION:
;  APPLICANT: King, Gordon E.
;  APPLICANT:  Meagher, Madeleine Joy
;  APPLICANT:  Xu, Jiangchun
;  APPLICANT:  Secrist, Heather
;  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
;  TITLE OF INVENTION:  AND DIAGNOSIS OF COLON CANCER
;  FILE REFERENCE: 210121.547C1
;  CURRENT APPLICATION NUMBER: US/10/033,528
;  CURRENT FILING DATE:  2001-12-26
;  NUMBER OF SEQ ID NOS: 1896
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 939
;   LENGTH: 552
;   TYPE: DNA
;   ORGANISM: Homo sapiens
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US-10-033-528-939

Query Match 65.0%; Score 542.8; DB 14; Length 552;
Best Local Similarity 99.6%; Pred. No. 3e-124;
Matches 544; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Qy        290 GTCCTCTTCCGTGATGATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAA 349
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        552 GTCCTCTTCCGTGATGATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAA 493

Qy        350 GCTGCAAAACGAAGGAAGATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCAT 409
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        492 GCTGCAAAACGAAGGAAGATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCAT 433

Qy        410 GATGATGTTGACATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGC 469
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        432 GATGATGTTGACATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGC 373

Qy        470 CATTTTTTGTTTCTGGTAAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTT 529
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        372 CATTTTTTGTTTCTGGTAAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTT 313

Qy        530 AATGTATTTTTATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTT 589
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||| ||||||||
Db        312 AATGTATTTTTATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGCCTGTCCTT 253

Qy        590 TTTTATATCTTGAAAGAAAATCTATGTATGATGCTATAAAATAAATCCTATTATTTTTCT 649
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        252 TTTTATATCTTGAAAGAAAATCTATGTATGATGCTATAAAATAAATCCTATTATTTTTCT 193

Qy        650 CAGGAATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGCGGGGGCAGGGATGGGAATGT 709
              |||||||||||||||||||||||||||||||||||||||||||||| ||||||||||||||
Db        192 CAGGAATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGCGGGGGCAAGGATGGGAATGT 133

Qy        710 TTGTTCATAAATAATTAGACATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGC 769
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        132 TTGTTCATAAATAATTAGACATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGC 73

Qy        770 AAACTGAAGACCAACTCCTATGAGAAATATTATGATGTTTATGTAATAAAGACATGTAAC 829
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         72 AAACTGAAGACCAACTCCTATGAGAAATATTATGATGTTTATGTAATAAAGACATGTAAC 13

Qy        830 TGTCTT 835
              ||||||
Db         12 TGTCTT 7
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RESULT 9
US-10-099-926-939/c
; Sequence 939, Application US/10099926
; Publication No. US20030166064A1
; GENERAL INFORMATION:
; APPLICANT: King, Gordon E.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Xu, Jiangchun
; APPLICANT: Secrist, Heather
; APPLICANT: Jiang, Yuqiu
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.547C2
; CURRENT APPLICATION NUMBER: US/10/099,926
; CURRENT FILING DATE: 2002-03-17
; NUMBER OF SEQ ID NOS: 1982
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 939
; LENGTH: 552
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-099-926-939

Query Match 65.0%; Score 542.8; DB 15; Length 552;
Best Local Similarity 99.6%; Pred. No. 3e-124;
Matches 544; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```
Qy        290 GTCCTCTTCCGTGATGATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAA 349
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        552 GTCCTCTTCCGTGATGATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAA 493

Qy        350 GCTGCAAAACGAAGGAAGATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCAT 409
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        492 GCTGCAAAACGAAGGAAGATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCAT 433

Qy        410 GATGATGTTGACATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGC 469
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        432 GATGATGTTGACATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGC 373

Qy        470 CATTTTTTGTTTCTGGTAAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTT 529
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        372 CATTTTTTGTTTCTGGTAAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTT 313

Qy        530 AATGTATTTTTATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTT 589
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||| ||||||||
Db        312 AATGTATTTTTATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGCCTGTCCTT 253

Qy        590 TTTTATATCTTGAAAGAAAATCTATGTATGATGCTATAAAATAAATCCTATTATTTTTCT 649
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        252 TTTTATATCTTGAAAGAAAATCTATGTATGATGCTATAAAATAAATCCTATTATTTTTCT 193

Qy        650 CAGGAATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGCGGGGGCAGGGATGGGAATGT 709
              |||||||||||||||||||||||||||||||||||||||||||||| ||||||||||||||
Db        192 CAGGAATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGCGGGGGCAAGGATGGGAATGT 133

Qy        710 TTGTTCATAAATAATTAGACATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGC 769
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        132 TTGTTCATAAATAATTAGACATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGC 73

Qy        770 AAACTGAAGACCAACTCCTATGAGAAATATTATGATGTTTATGTAATAAAGACATGTAAC 829
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         72 AAACTGAAGACCAACTCCTATGAGAAATATTATGATGTTTATGTAATAAAGACATGTAAC 13

Qy        830 TGTCTT 835
              ||||||
Db         12 TGTCTT 7
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RESULT 10
US-10-085-783A-56189
; Sequence 56189, Application US/10085783A
; Publication No. US20040037841A1
; GENERAL INFORMATION:
; APPLICANT: ChondroGene Inc.
; APPLICANT: Liew, C.C.
; TITLE OF INVENTION: Compositions and Methods Relatiing to Osteoarthritis
; FILE REFERENCE: 4231/2002
; CURRENT APPLICATION NUMBER: US/10/085,783A
; CURRENT FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/305,340
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/275,017
; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 60/271,955
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 58994
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 56189
; LENGTH: 483
; TYPE: DNA
; ORGANISM: Human
US-10-085-783A-56189

Query Match 56.3%; Score 469.8; DB 13; Length 483;
Best Local Similarity 99.6%; Pred. No. 3.6e-106;
Matches 471; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Qy        127 AGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAAACCGCGCAG 186
              | ||||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Db         11 AAGTAACTGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAAACCGCGCAG 70

Qy        187 AGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAATTCATCGTTT 246
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         71 AGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAATTCATCGTTT 130

Qy        247 GGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCGTGATGA 306
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        131 GGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCGTGATGA 190

Qy        307 TAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACGAAGGAA 366
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        191 TAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACGAAGGAA 250

Qy        367 GATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGATGTTGACATTAT 426
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        251 GATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGATGTTGACATTAT 310

Qy        427 ATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCATTTTTTGTTTCTGGT 486
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        311 ATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCATTTTTTGTTTCTGGT 370

Qy        487 AAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTTAATGTATTTTTATAGAA 546
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        371 AAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTTAATGTATTTTTATAGAA 430

Qy        547 CTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTTTTTTTATATCT 599
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        431 CTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTTTTTTTATATCT 483
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RESULT 11
US-10-242-535A-56189
; Sequence 56189, Application US/10242535A
; Publication No. US20040013663A1
; GENERAL INFORMATION:
; APPLICANT: ChondroGene Inc.
; APPLICANT: Liew, C.C.
; TITLE OF INVENTION: Compositions and Methods Relatiing to Osteoarthritis
; FILE REFERENCE: 4231/2005
; CURRENT APPLICATION NUMBER: US/10/242,535A
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: US 10/085,783
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/305,340
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/275,017
; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 60/271,955
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 58994
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 56189
; LENGTH: 483
; TYPE: DNA
; ORGANISM: Human
US-10-242-535A-56189

Query Match 56.3%; Score 469.8; DB 16; Length 483;
Best Local Similarity 99.6%; Pred. No. 3.6e-106;
Matches 471; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Qy        127 AGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAAACCGCGCAG 186
              | ||||| ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         11 AAGTAACTGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAAACCGCGCAG 70

Qy        187 AGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAATTCATCGTTT 246
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         71 AGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAATTCATCGTTT 130

Qy        247 GGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCGTGATGA 306
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        131 GGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCGTGATGA 190

Qy        307 TAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACGAAGGAA 366
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        191 TAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACGAAGGAA 250

Qy        367 GATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGATGTTGACATTAT 426
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        251 GATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGATGTTGACATTAT 310

Qy        427 ATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCATTTTTTGTTTCTGGT 486
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        311 ATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCATTTTTTGTTTCTGGT 370

Qy        487 AAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTTAATGTATTTTTATAGAA 546
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        371 AAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTTAATGTATTTTTATAGAA 430

Qy        547 CTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTTTTTTTATATCT 599
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        431 CTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTTTTTTTATATCT 483
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RESULT 12
US-09-969-034-750
; Sequence 750, Application US/09969034
; Publication No. US20040110668A1
; GENERAL INFORMATION:
; APPLICANT: Burgess, Christopher C.
; APPLICANT: Astle, Jon H.
; APPLICANT: Carroll, Eddie III
; APPLICANT: Catino, Theodore J.
; APPLICANT: Dwivedi, Poornima
; APPLICANT: Molino, Gary A.
; APPLICANT: Thiagalingam, Arunthathi
; APPLICANT: Lewis, Marcia E.
; TITLE OF INVENTION: Nucleic Acid Sequences Differentially
; TITLE OF INVENTION: Expressed in Cancer Tissue
; FILE REFERENCE: 1657/1032
; CURRENT APPLICATION NUMBER: US/09/969,034
; CURRENT FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: 60/237,271
; PRIOR FILING DATE: 2000-02-10
; NUMBER OF SEQ ID NOS: 4494
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 750
; LENGTH: 594
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 405, 447, 472, 485, 497, 513, 534, 537, 541, 543, 563, 572
; OTHER INFORMATION: n = A,T,C or G
US-09-969-034-750

Query Match 53.9%; Score 450.2; DB 12; Length 594;
Best Local Similarity 86.8%; Pred. No. 3e-101;
Matches 488; Conservative 0; Mismatches 74; Indels 0; Gaps 0;

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Qy          6 GAGGCTTGAGCGCAGAAACACTTACTTTTCCCCCTACCCTGCTCCTCCTCCTCCACAGCC 65
              | | ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          8 GGGTCTTGAGCGCAGAAACACTTACTTTTCCCCCTACCCTGCTCCTCCTCCTCCACAGCC 67

Qy         66 GTCTTTCTCTTTGCCTCAGCCACTTCCTTCCTTCTGCCTCACCCTCCCCAGTGCACTGAAG 125
              ||||||||||||||||||||||||||||||||||| ||||||||||||||||||||||||
Db         68 GTCTTTCTCTTTGCCTCAGCCACTTCCTTCCTTGGCCTCACCCTCCCCAGTGCACTGAAG 127

Qy        126 AAGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAAACCGCGCA 185
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        128 AAGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAAACCGCGCA 187

Qy        186 GAGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAATTCATCGTT 245
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        188 GAGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAATTCATCGTT 247
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Qy        246 TGGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCGTGATG 305
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        248 TGGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCGTGATG 307

Qy        306 ATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACGAAGGA 365
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        308 ATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACGAAGGA 367

Qy        366 AGATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGATGTTGACATTA 425
              |||||||||||||||||||||||||||||| ||||| ||||||||||||||||||||||
Db        368 AGATTGTAACATATCCAGGAGAGCTGCTTCTACAAGGNGTTCATGATGATGTTGACATTA 427

Qy        426 TATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCATTTTTTGTTTCTGG 485
              |||||||||||||| ||||| || |||||||||||||||||| |     |     |
Db        428 TATTACTGCAAGAATAATGNGGGTTACATATCTTTATGTACCCCNGGCTCAATTGATNCC 487

Qy        486 TAAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTTAATGTATTTTTATAGA 545
              | ||| |            || | |           |||     |   | ||| |  |
Db        488 AATACTTGGNCCACGGAACAAGGTANCCTAGGGATAACAACGCAATNCTNTTTNTNAAAG 547

Qy        546 ACTTTGTAAACGAAAGGAGATT 567
              |  | | ||| | | | | ||
Db        548 TCCATATTAACAATANGGGTTT 569


RESULT 13
US-09-969-034-748
; Sequence 748, Application US/09969034
; Publication No. US20040110668A1
; GENERAL INFORMATION:
;  APPLICANT: Burgess, Christopher C.
;  APPLICANT:  Astle, Jon H.
;  APPLICANT:  Carroll, Eddie III
;  APPLICANT:  Catino, Theodore J.
;  APPLICANT:  Dwivedi, Poornima
;  APPLICANT:  Molino, Gary A.
;  APPLICANT:  Thiagalingam, Arunthathi
;  APPLICANT:  Lewis, Marcia E.
;  TITLE OF INVENTION: Nucleic Acid Sequences Differentially
;  TITLE OF INVENTION:  Expressed in Cancer Tissue
;  FILE REFERENCE: 1657/1032
;  CURRENT APPLICATION NUMBER: US/09/969,034
;  CURRENT FILING DATE:  2001-10-02
;  PRIOR APPLICATION NUMBER: 60/237,271
;  PRIOR FILING DATE: 2000-02-10
;  NUMBER OF SEQ ID NOS: 4494
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 748
;   LENGTH: 717
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: 452, 481, 482, 505, 521, 536, 540, 594, 599, 607, 635, 641,
;   LOCATION: 643, 657, 664, 673, 691, 695, 700
;   OTHER INFORMATION: n = A,T,C or G
US-09-969-034-748

  Query Match           52.3%;  Score 436.8;  DB 12;  Length 717;
  Best Local Similarity   97.8%;  Pred. No. 7e-98;
  Matches  453;  Conservative    0;  Mismatches    8;  Indels    2;  Gaps    1;

Qy          6 GAGGCTTGAGCGCAGAAACACTTACTTTTCCCCCTACCCTGCTCCTCCTCCTCCACAGCC 65
              | | ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         11 GGGTCTTGAGCGCAGAAACACTTACTTTTCCCCCTACCCTGCTCCTCCTCCTCCACAGCC 70

Qy         66 GTCTTTCTCTTTGCCTCAGCCACTTCCTTCCTTCGCCTCACCCTCCCCAGTGCACTGAAG 125
              |||||||||||||||||||||||||||||| ||||||||||||||||||||||||||||
Db         71 GTCTTTCTCTTTGCCTCAGCCACTTCCTTCCTTGGCCTCACCCTCCCCAGTGCACTGAAG 130

Qy        126 AAGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAAACCGCGCA 185
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        131 AAGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAAACCGCGCA 190

Qy        186 GAGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAATTCATCGTT 245
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        191 GAGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAATTCATCGTT 250

Qy        246 TGGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCGTGATG 305
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        251 TGGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCGTGATG 310

Qy        306 ATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACGAAGGA 365
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        311 ATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACGAAGGA 370

Qy        366 AGATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGATGTTGACATTA 425
              |||||||||||||||||||||||||||||| ||||||||||||||||||||||||||||||
Db        371 AGATTGTAACATATCCAGGAGAGCTGCTTCTACAAGGTGTTCATGATGATGTTGACATTA 430

Qy        426 TATTACTGCAA--GATTAATGTGGTTTACATATCTTTATGTAC 466
              |||||||||||    || |||| || ||||||||||||||||||
Db        431 TATTACTGCAAAGAATAAATGNGGGTTACATATCTTTATGTAC 473


RESULT 14
US-09-880-107-687/c
; Sequence 687, Application US/09880107
; Patent No. US20020142981A1
; GENERAL INFORMATION:
;  APPLICANT: Horne, Darci T.
;  APPLICANT:  Vockley, Joseph G.
;  APPLICANT:  Scherf, Uwe
;  APPLICANT:  Gene Logic, Inc.
;  TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
;  FILE REFERENCE: 44921-5028-WO
;  CURRENT APPLICATION NUMBER: US/09/880,107
;  CURRENT FILING DATE:  2001-06-14
;  PRIOR APPLICATION NUMBER: US 60/211,379
;  PRIOR FILING DATE: 2000-06-14
;  PRIOR APPLICATION NUMBER: US 60/237,054
;  PRIOR FILING DATE: 2000-10-02
;  NUMBER OF SEQ ID NOS: 3950
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 687
;   LENGTH: 406
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   OTHER INFORMATION: Genbank Accession No. US20020142981A1 AA287347
US-09-880-107-687

  Query Match           45.8%;  Score 382.4;  DB 9;  Length 406;
  Best Local Similarity   99.7%;  Pred. No. 1.5e-84;
  Matches  383;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy        452 CATATCTTTATGTACTGCCATTTTTTGTTTCTGGTAAACTGGAATATAAAGTGAAAGAAC 511
              |||||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        406 CATATCCTTATGTACTGCCATTTTTTGTTTCTGGTAAACTGGAATATAAAGTGAAAGAAC 347

Qy        512 AAACATTTGAACATACTTAATGTATTTTTATAGAACTTTGTAAACGAAAGGAGATTCATG 571
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        346 AAACATTTGAACATACTTAATGTATTTTTATAGAACTTTGTAAACGAAAGGAGATTCATG 287

Qy        572 TTTTAGAAGTCTGTCCTTTTTTTATATCTTGAAAGAAAATCTATGTATGATGCTATAAAAT 631
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        286 TTTTAGAAGTCTGTCCTTTTTTTATATCTTGAAAGAAAATCTATGTATGATGCTATAAAAT 227

Qy        632 AAATCCTATTATTTTTCTCAGGAATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGCG 691
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        226 AAATCCTATTATTTTTCTCAGGAATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGCG 167

Qy        692 GGGCAGGGATGGGAATGTTTGTTCATAAATAATTAGACATTTTCTATAGATATTTGACAT 751
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        166 GGGCAGGGATGGGAATGTTTGTTCATAAATAATTAGACATTTTCTATAGATATTTGACAT 107
```

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Qy        752 TCTGCGAAAGCAACAAGCAAACTGAAGACCAACTCCTATGAGAAATATTATGATGTTTAT 811
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        106 TCTGCGAAAGCAACAAGCAAACTGAAGACCAACTCCTATGAGAAATATTATGATGTTTAT 47

Qy        812 GTAATAAAGACATGTAACTGTCTT 835
              |||||||||||||||||||||||
Db         46 GTAATAAAGACATGTAACTGTCTT 23
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RESULT 15
US-10-085-783A-21733
; Sequence 21733, Application US/10085783A
; Publication No. US20040037841A1
; GENERAL INFORMATION:
; APPLICANT: ChondroGene Inc.
; APPLICANT: Liew, C.C.
; TITLE OF INVENTION: Compositions and Methods Relatiing to Osteoarthritis
; FILE REFERENCE: 4231/2002
; CURRENT APPLICATION NUMBER: US/10/085,783A
; CURRENT FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/305,340
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/275,017
; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 60/271,955
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 58994
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 21733
; LENGTH: 400
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (23)..(23)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (48)..(48)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (328)..(328)
; OTHER INFORMATION: n is a, c, g, or t
US-10-085-783A-21733

Query Match 45.6%; Score 381; DB 13; Length 400;
Best Local Similarity 96.8%; Pred. No. 3.4e-84;
Matches 387; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

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Qy        121 TGAAGAAGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAAACC 180
              ||||||||  | | ||  |     |||||||||||||||||||||| ||||||||||||
Db          1 TGAAGAAGTAACCGGGTCCATTNTCCACGCGGCGCCAGTTCTCCGGCNGGAAGGAAAACC 60

Qy        181 GCGCAGAGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAATTCA 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 GCGCAGAGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAATTCA 120

Qy        241 TCGTTTGGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCG 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 TCGTTTGGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCG 180

Qy        301 TGATGATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACG 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 TGATGATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACG 240

Qy        361 AAGGAAGATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGATGTTGA 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 AAGGAAGATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGATGTTGA 300

Qy        421 CATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCATTTTTTGTT 480
              |||||||||||||||||||||||||| |||||||||||||||||||||||||||||||
Db        301 CATTATATTACTGCAAGATTAATGTGGNTTACATATCTTTATGTACTGCCATTTTTTGTT 360

Qy        481 TCTGGTAAACTGGAATATAAAGTGAAAGAACAAACATTTG 520
              |||||||||||||||||||||||||||||||||||||||
Db        361 TCTGGTAAACTGGAATATAAAGTGAAAGAACAAACATTTG 400
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Search completed: August 21, 2004, 18:32:57
Job time : 595.895 secs

GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: August 21, 2004, 11:55:37 ; Search time 80.1393 Seconds
(without alignments)
5782.230 Million cell updates/sec

Title: US-09-648-310-3
Perfect score: 835
Sequence: 1 ggcacgaggcttgagcgcag.....taaagacatgtaactgtctt 835

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*
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2: /cgn2_6/ptodata/2/ina/5B_COMB.seq:*
3: /cgn2_6/ptodata/2/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/2/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/2/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
	1	747	89.5	786	4	US-09-023-655-79	Sequence 79, Appl
	2	310	37.1	800	4	US-09-644-460-26	Sequence 26, Appl
	3	186	22.3	219	4	US-09-621-976-17956	Sequence 17956, A
	4	170.2	20.4	611	3	US-09-385-982-376	Sequence 376, App
	5	50	6.0	6020	4	US-10-204-708-8	Sequence 8, Appli
	6	45.2	5.4	177	2	US-09-032-684-20	Sequence 20, Appl
	7	45.2	5.4	177	4	US-09-644-460-20	Sequence 20, Appl
	8	45.2	5.4	832	4	US-09-621-976-2813	Sequence 2813, Ap
c	9	44.8	5.4	640681	4	US-09-790-988-1	Sequence 1, Appli
	10	44.4	5.3	1218	2	US-08-731-722-4	Sequence 4, Appli
	11	43.8	5.2	8537	4	US-10-204-708-42	Sequence 42, Appl
c	12	43	5.1	1189	4	US-09-221-017B-77	Sequence 77, Appl
c	13	42.8	5.1	2861	1	US-08-299-953-1	Sequence 1, Appli
c	14	42.8	5.1	2861	1	US-08-459-415-1	Sequence 1, Appli
c	15	42.8	5.1	2861	4	US-09-066-687-1	Sequence 1, Appli
c	16	42.8	5.1	2861	5	PCT-US95-11231-1	Sequence 1, Appli
c	17	42.8	5.1	3881	1	US-08-299-953-2	Sequence 2, Appli
c	18	42.8	5.1	3881	1	US-08-459-415-2	Sequence 2, Appli
c	19	42.8	5.1	3881	4	US-09-066-687-2	Sequence 2, Appli
c	20	42.8	5.1	3881	5	PCT-US95-11231-2	Sequence 2, Appli
	21	42.4	5.1	640681	4	US-09-790-988-1	Sequence 1, Appli
c	22	41.4	5.0	487	4	US-09-621-976-16334	Sequence 16334, A
	23	41.4	5.0	1497	4	US-09-220-132-94	Sequence 94, Appl
	24	41	4.9	6156	4	US-10-204-708-59	Sequence 59, Appl
	25	40.4	4.8	6113	4	US-10-204-708-13	Sequence 13, Appl
c	26	40.2	4.8	3095	6	5231168-1	Patent No. 5231168
	27	40.2	4.8	7101	1	US-08-480-604A-9	Sequence 9, Appli
	28	40.2	4.8	7101	2	US-08-405-496A-9	Sequence 9, Appli
	29	40.2	4.8	7101	3	US-08-915-136-9	Sequence 9, Appli
	30	40.2	4.8	7101	4	US-08-957-310-9	Sequence 9, Appli
	31	40.2	4.8	7101	4	US-10-011-366-9	Sequence 9, Appli
	32	40.2	4.8	7101	4	US-09-084-517-9	Sequence 9, Appli
	33	40	4.8	4702	4	US-08-956-171E-268	Sequence 268, App
	34	40	4.8	7218	1	US-08-232-463-14	Sequence 14, Appl
	35	39.8	4.8	1182	4	US-09-134-000C-3346	Sequence 3346, Ap
c	36	39.8	4.8	1664976	4	US-08-916-421B-1	Sequence 1, Appli
	37	39.6	4.7	501	4	US-09-601-198-81	Sequence 81, Appl
	38	39.6	4.7	6306	4	US-10-204-708-50	Sequence 50, Appl
c	39	39.4	4.7	1110	4	US-09-328-352-2373	Sequence 2373, Ap
	40	38.8	4.6	8607	4	US-10-204-708-71	Sequence 71, Appl
	41	38.8	4.6	9636	1	US-08-323-170B-1	Sequence 1, Appli
	42	38.8	4.6	9636	4	US-08-954-441-1	Sequence 1, Appli
	43	38.8	4.6	11049	4	US-10-204-708-22	Sequence 22, Appl
	44	38.6	4.6	11049	4	US-10-204-708-23	Sequence 23, Appl
	45	38.2	4.6	3001	4	US-09-539-333D-146	Sequence 146, App

ALIGNMENTS

RESULT 1
US-09-023-655-79
; Sequence 79, Application US/09023655
; Patent No. 6607879
; GENERAL INFORMATION:
; APPLICANT: Cocks, Benjamin G.
; APPLICANT: Susan G. Stuart
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
; TITLE OF INVENTION: EXPRESSION
; NUMBER OF SEQUENCES: 1508
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,655
; FILING DATE: HEREWITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0001 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 79:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 786 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: THP1PLB01
; CLONE: 012364
US-09-023-655-79

Query Match 89.5%; Score 747; DB 4; Length 786;

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  Best Local Similarity   99.0%;  Pred. No. 2.1e-186;
  Matches  773;  Conservative    0;  Mismatches    5;  Indels    3;  Gaps    2;

Qy         58 CCACAGCCGTCTTTCTCTTTGCCTCAGCCACTTCCTTCCTTCGCCTCACCCTCCCCAGTG 117
              ||||||||||||||||||||||||||||||||||||||||||||| ||||||||||||||||
Db          1 CCACAGCCGTCTTTCTCTTTGCCTCAGCCACTTCCTTCCTTGGCCTCACCCTCCCCAGTG 60

Qy        118 CACTGAAGAAGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAA 177
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 CACTGAAGAAGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAA 120

Qy        178 ACCGCGCAGAGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAAT 237
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 ACCGCGCAGAGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAAT 180

Qy        238 TCATCGTTTGGGTTCAAAAAATGCTGATGGAAAGTTAAGC--GTGAAATTTGGGGTCCTC 295
              ||||||||||||||||||||||||||||||||||||||||||  || ||||||||||||
Db        181 TCATCGTTTGGGTTCAAAAAATGCTGATGGAAAGTTAAGCCGTGAAATTTTGGGGTCCTC 240

Qy        296 TTCCGTGATGATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGC- 354
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||| 
Db        241 TTCCGTGATGATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCA 300

Qy        355 AAAACGAAGGAAGATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGA 414
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 AAAACGAAGGAAGATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGA 360

Qy        415 TGTTGACATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCATTT 474
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 TGTTGACATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCATTT 420

Qy        475 TTTGTTTCTGGTAAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTTAATGT 534
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 TTTGTTTCTGGTAAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTTAATGT 480

Qy        535 ATTTTTATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTTTTTTA 594
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 ATTTTTATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTTTTTTA 540

Qy        595 TATCTTGAAAGAAAATCTATGTATGATGCTATAAAATAAATCCTATTATTTTTCTCAGGA 654
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 TATCTTGAAAGAAAATCTATGTATGATGCTATAAAATAAATCCTATTATTTTTCTCAGGA 600

Qy        655 ATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGCGGGGCAGGGATGGGAATGTTTGTT 714
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        601 ATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGCGGGGCAGGGATGGGAATGTTTGTT 660

Qy        715 CATAAATAATTAGACATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGCAAACT 774
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        661 CATAAATAATTAGACATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGCAAACT 720

Qy        775 GAAGACCAACTCCTATGAGAAATATTATGATGTTTATGTAATAAAGACATGTAACTGTCT 834
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        721 GAAGACCAACTCCTATGAGAAATATTATGATGTTTATGTAATAAAGACATGTAACTGTCT 780

Qy        835 T 835
              |
Db        781 T 781


RESULT 2
US-09-644-460-26
; Sequence 26, Application US/09644460
; Patent No. 6657053
; GENERAL INFORMATION:
;  APPLICANT: Fisher, Paul B.
;  TITLE OF INVENTION: Reciprocal Subtraction Differential
;  TITLE OF INVENTION:  Display
;  FILE REFERENCE: 34587-C-PCT-USA
;  CURRENT APPLICATION NUMBER: US/09/644,460
;  CURRENT FILING DATE:  2000-08-23
;  PRIOR APPLICATION NUMBER: PCT/US99/04323
;  PRIOR FILING DATE: 1999-02-26
;  PRIOR APPLICATION NUMBER: US 09/197,889
;  PRIOR FILING DATE: 1998-11-23
;  PRIOR APPLICATION NUMBER: US 09/185,115
;  PRIOR FILING DATE: 1998-11-03
;  PRIOR APPLICATION NUMBER: US 09/032,684
;  PRIOR FILING DATE: 1998-02-27
;  NUMBER OF SEQ ID NOS: 42
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 26
;   LENGTH: 800
;   TYPE: DNA
;   ORGANISM: homo sapiens
US-09-644-460-26

  Query Match           37.1%;  Score 310;  DB 4;  Length 800;
  Best Local Similarity   68.7%;  Pred. No. 7.1e-72;
  Matches  537;  Conservative    0;  Mismatches  220;  Indels   25;  Gaps    7;

Qy         43 CCTGCTCCTCCTCCTCCACAGCCGTCTTTCTCTTTGCCTCAGCCACTTCCTTCCTTCGCC 102
              | | | |  ||| |||||| || | |||||||||| |||  | ||||||||||| |  ||
Db         16 CGTCCCCTCCCTTCTCCACTGCAGCCTTTCTCTTAGCCCGAACCACTTCCTTCTTCTGCT 75

Qy        103 TCACCCTCCCCAGTGCACTGAAGAAGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCT 162
              | ||||||  || ||  | ||||  |     | |||| ||||||||||||||||
Db         76 TGTTCCTCCCTAGGGCGCGGAAGCTGAGTGCAGGGTTCAGACCCACGCGGCGAGCAGCTC 135

Qy        163 CCGGCGGGAAGGAAAACCGCGCAGAGAGGCAGCAATGAATGTGGATCACGAGGTTAACCT 222
              | |     || |   | ||| | |||||||||| |||||  || ||||||||||||
Db        136 TTCAGTGAAGAAGGAAGCAATCGGAGGGTCAGCAATGAACGTGGAGCATGAGGTTAACCT 195

Qy        223 CTTAGTGGAGGAAATTCATCGTTTGGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAA 282
              | | |||||||||||||||||| ||||||| |||||||| ||||| ||  | || |||||
Db        196 CCTGGTGGAGGAAATTCATCGTCTGGGTTCCAAAAATGCCGATGGGAAACTGAGTGTGAA 255

Qy        283 ATTTGGGGTCCTCTTCCGTGATGATAAATGTGCCAACCTCTTTG-AAGCATTGGTAGGAA 341
              |||||||||||||||  || || | |||||||||| |||||||  || | |||||  ||||
Db        256 GTTTGGGGTCCTCTTCCAAGACGACAGATGTGCCAATCTCTTTGAAACCGTTGGTGGGAA 315

Qy        342 CTCTTAAAG-CTGCAAAACGAAGGAAGATTGTAACATATCCAGGAGAGCTGCTTCTGCAA 400
              |||  |||| | ||||||||||||||||||||| ||  ||  ||| |||||||||| |||||
Db        316 CTCTGAAAGCCCGCAAAACGAAGGAAGATTGTTACGTACGCAGAAGAGCTGCTTTTGCAA 375

Qy        401 GGTGTTCATGATGATGTTGACATTATATTACTGCAAGATTAATGTGGTTTACATATCTTT 460
              |||||||||||||||||||||| |||| ||||||||||||||||||  || ||||
Db        376 GGTGTTCATGATGATGTTGACATTGTATTGCTGCAAGATTAATGTGGTTTGCAGATCTGG 435

Qy        461 ATGTACTGCCATTTTTTGTTTCTGGTAAACTGGAAT-ATAAAGTGAAAGAACAAACATTT 519
              |||                |||||||||||||||  |||| |||| ||||||||||
Db        436 GGGTA--------------TCTGGTAAACTGGAATAATTAAGTTAAAGGACAAACAT-- 478

Qy        520 GAACATACTTAATGTATTTTTATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAA 579
              |  | | | |||||||||||||||| |||||||| ||||| ||  | ||||    |
Db        479 -GAAGTTCCTTATGTATTTTTATAGACCTTTGTAAACAAAAGGGGA--CTTGTTGAGAAG 535

Qy        580 GTCTGTCCTTTTTTATATCTTGAAAGAAAATCTATGTATGATGCTATAAAATAAATCCTA 639
              ||||  || |    |     ||| |   | ||||  |    | ||||    | |
Db        536 TCCTGTTTTTATACCTTGGAGCAAAACATTACAATGTAAAAATAAACAAAACCTGTTATT 595

Qy        640 TTATTTTTCTCAGGAATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGCGGGGCAGGG 699
              ||  |||||||  | |||  |  |  |||  | |||||||  | ||  ||||  | ||  |
Db        596 TTTTTTTTCTTAAGAAGGTAATCGGGAGACGTAGGCAATAAAATGTTTTCAGAGGTGCGA 655

Qy        700 ATGGGAATGTTTGTTCATAAATAATTAGACATTTTCTATAGATATTTGACATTCTGCGAA 759
              |    |  | | | ||| ||||  ||       | |        | | |||||| || |  ||
Db        656 AAAAGCTTTTGTTTTCTTAAACCATTCTTAGTCT--CTGCCACACTTGACACTCCGTCAA 713

Qy        760 AGCAACAAGCAAACTGAAGACCAACTCCTATGAGAAATATTATGATGTTTATGTAATAAA 819
              ||  | |||| |||| |||||||||| |  ||  |||||||||| |   |   ||| |||
Db        714 AGTGAGAAGCGAACTAAAGACCAACTGCGGTGGAAAATATTATGTTTATGTAATAAAAAA 773

Qy        820 GA 821
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Db        774 AA 775
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RESULT 3
US-09-621-976-17956
; Sequence 17956, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
;  APPLICANT: Dumas Milne Edwards, J.B.
;  APPLICANT:  Jobert, S.
;  APPLICANT:  Giordano, J.Y.
;  TITLE OF INVENTION: ESTs and Encoded Human Proteins.
;  FILE REFERENCE: GENSET.054PR2
;  CURRENT APPLICATION NUMBER: US/09/621,976
;  CURRENT FILING DATE:  2000-07-21
;  NUMBER OF SEQ ID NOS: 19335
;  SOFTWARE: Patent.pm
; SEQ ID NO 17956
;    LENGTH: 219
;    TYPE: DNA
;    ORGANISM: Homo sapiens
US-09-621-976-17956

  Query Match             22.3%;  Score 186;  DB 4;  Length 219;
  Best Local Similarity   99.5%;  Pred. No. 1.3e-39;
  Matches  197;  Conservative    0;  Mismatches    0;  Indels    1;  Gaps    1;

Qy        637 CTATTATTTTTCTCAGGAATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGCGGGGCA 696
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 CTATTATTTTTCTCAGGAATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGCGGGGCA 60

Qy        697 GGGATGGGAATGTTTGTTCATAAATAATTAGACATTTTCTATAGATATTTGACATTCTGC 756
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 GGGATGGGAATGTTTGTTCATAAATAATTAGACATTTTCTATAGATATTTGACATTCTGC 120

Qy        757 GAAAGCAACAAGCAAACTGAAGACCAACTCCTATGAGAAATATTATGATGTTTATGTAAT 816
              |||| |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GAAA-CAACAAGCAAACTGAAGACCAACTCCTATGAGAAATATTATGATGTTTATGTAAT 179

Qy        817 AAAGACATGTAACTGTCT 834
              ||||||||||||||||||
Db        180 AAAGACATGTAACTGTCT 197


RESULT 4
US-09-385-982-376
; Sequence 376, Application US/09385982
; Patent No. 6262334
; GENERAL INFORMATION:
;  APPLICANT: ENDEGE, WILSON O., ET AL.
;  TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
;  TITLE OF INVENTION: PRODUCTS:  II
;  FILE REFERENCE: CCDNA-260XX
;  CURRENT APPLICATION NUMBER: US/09/385,982
;  CURRENT FILING DATE: 1999-08-30
;  EARLIER APPLICATION NUMBER: 09/328,111
;  EARLIER FILING DATE: 1999-06-08
;  EARLIER APPLICATION NUMBER: 60/117,393
;  EARLIER FILING DATE: 1999-01-27
;  EARLIER APPLICATION NUMBER: 60/098,639
;  EARLIER FILING DATE: 1998-08-31
;  NUMBER OF SEQ ID NOS: 544
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 376
;    LENGTH: 611
;    TYPE: DNA
;    ORGANISM: Homo sapiens
;    FEATURE:
;    NAME/KEY: misc_feature
;    LOCATION: (1)...(611)
;    OTHER INFORMATION: n = A,T,C or G
US-09-385-982-376

  Query Match             20.4%;  Score 170.2;  DB 3;  Length 611;
  Best Local Similarity   78.2%;  Pred. No. 2.8e-35;
  Matches  204;  Conservative    0;  Mismatches   56;  Indels    1;  Gaps    1;

Qy        461 ATGTACTGCCATTTTTTGTTTCTGGTAAACTGGAATATAAAGTGAAAGAACAAACATTTG 520
              | || | |||||||||| ||||| |||||| |||||||||| | ||||||||||| || |
Db        308 ANGTNCNGCCATTTTTNGTTTCNGGTAAACNGGAATATAANGNGAAAGAACAAACNTTGG 367

Qy        521 AACATACTTAATGTATTTTTATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAG 580
              |||||||||||||| |||||||||||||||||| |||| ||||||||||||||||||| |||
Db        368 AACATACTTAATGGATTTTTATAGAACTTTGNAAACCAAAGGAGATTCATGTTTTANAAG 427

Qy        581 TCTGTCCTTTTTTTATATCTTGAAAGAAAATCTATGTATGATGCTATAAAATAAATCCTAT 640
              |||| |||||||||||||||| |||||||| ||||| ||   |     |||||||||| ||
Db        428 TCTGGCCTTTTTTTATATCTTGGAAGAAAAT-TATGTNTGGAGGCTNTAAATAAATCCCAT 486

Qy        641 TATTTTTCTCAGGAATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGCGGGGCAGGGA 700
              ||||||     ||||||||| |||||||||| |||   |  | ||||   ||| | |
Db        487 TATTTTCTCAGGGAATCTGGGTAGGAATTGCCGGCATGGGAANTTTTNNGGGGCCGGATN 546

Qy        701 TGGGAATGTTTGTTCATAAAT 721
              |  | | |    | | ||||
Db        547 GGAAAGTTTGGCCTAANAAAT 567


RESULT 5
US-10-204-708-8
; Sequence 8, Application US/10204708
; Patent No. 6677731
; GENERAL INFORMATION:
;  APPLICANT: OLEK, Alexander
;  APPLICANT:  PIEPENBROCK, Christian
;  APPLICANT:  BERLIN, Kurt
;  TITLE OF INVENTION: Diagnosis of Diseases Associated with DNA Replication
;  TITLE OF INVENTION:  by Assessing DNA Methylation
;  FILE REFERENCE: 5013.1012
;  CURRENT APPLICATION NUMBER: US/10/204,708
;  CURRENT FILING DATE:  2003-05-06
;  PRIOR APPLICATION NUMBER: PCT/EP01/03971
;  PRIOR FILING DATE: 2001-04-06
;  PRIOR APPLICATION NUMBER: DE 10019058.8
;  PRIOR FILING DATE: 2000-04-06
;  PRIOR APPLICATION NUMBER: DE 10019173.8
;  PRIOR FILING DATE: 2000-04-07
;  PRIOR APPLICATION NUMBER: DE 10032529.7
;  PRIOR FILING DATE: 2000-06-30
;  PRIOR APPLICATION NUMBER: DE 10043826.1
;  PRIOR FILING DATE: 2000-09-01
;  NUMBER OF SEQ ID NOS: 98
; SEQ ID NO 8
;    LENGTH: 6020
;    TYPE: DNA
;    ORGANISM: Artificial Sequence
;    FEATURE:
;    OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-204-708-8

  Query Match              6.0%;  Score 50;  DB 4;  Length 6020;
  Best Local Similarity   51.1%;  Pred. No. 0.0022;
  Matches  143;  Conservative    0;  Mismatches  135;  Indels    2;  Gaps    1;

Qy        412 TGATGTTGACATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCA 471
              | ||||    ||| | ||  |   | |||   | | | |  | ||| | |   |
Db       1713 TTATGTAAGTATTTTTTTTTTTATATGTTAGGTTATTATTAAGTTATTTGTTTTTTTAGA 1772

Qy        472 TTTTTTGTTTCTGGTAAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTTAA 531
              | |||| | | |  ||    | |  ||| ||  | | |   || ||   ||| |  |
Db       1773 TGTTTTATATATAATATTTGGTATATTAATATGTTTGGAAATGTATATGTGTATAATATA 1832

Qy        532 TGTATTTTTA--TAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTT 589
              | ||| | ||  || |  | |||| |||| |  |||| ||  |    | || |   ||
Db       1833 TTTATATATATGTATATGTGTGTAGACGATATAAGATTAATTTGAACGTTGTATAAAATT 1892

Qy        590 TTTTATATCTTGAAAGAAAATCTATGTATGATGCTATAAAATAAATCCTATTATTTTTCT 649
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                |||| ||| |||||  ||    | | ||  ||       | ||| ||     ||| | | |
Db       1893 TTTTTTATATTGAATAAAGTGTTTTTTAGAATATATATATATATATATATATATATAT 1952

Qy        650 CAGGAATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTG 689
                | | |||||    ||  |    ||| ||| ||| |
Db       1953 ATATATACGGGTTATTTTTTTAATTTGATGTGATGTTTAG 1992


RESULT 6
US-09-032-684-20
; Sequence 20, Application US/09032684
; Patent No. 5882874
;  GENERAL INFORMATION:
;    APPLICANT:  Fisher, Paul B.
;    TITLE OF INVENTION:  RECIPROCAL SUBTRACTION DIFFERENTIAL
;    TITLE OF INVENTION:  DISPLAY
;    NUMBER OF SEQUENCES:  24
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Cooper & Dunham LLP
;      STREET:  1185 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/032,684
;      FILING DATE:
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  White, John P.
;      REGISTRATION NUMBER:  28,678
;      REFERENCE/DOCKET NUMBER:  55551/JPW/AMG
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 278-0400
;      TELEFAX:  (212) 391-0525
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  177 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
US-09-032-684-20

  Query Match             5.4%;  Score 45.2;  DB 2;  Length 177;
  Best Local Similarity   60.5%;  Pred. No. 0.0096;
  Matches   92;  Conservative    0;  Mismatches   58;  Indels    2;  Gaps    1;

Qy        670 GCAGGCAATGAGATTTTTTGCGGGGCAGGGATGGGAATGTTTGTTCATAAATAATTAGAC 729
              | |||||||  |  ||  ||||   | ||    |  |    |  | |  |||  ||||   |||
Db          1 GTAGGCAATAAAATGTTTTCAGAGGTGCGAAAAAGCTTTTGTTTTCTTAAACCATTCTTA 60

Qy        730 ATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGCAAACTGAAGACCAACTCCTA 789
                | |       | |  ||||||  ||  |   ||||   | ||||  ||||  ||||||||||  |
Db         61 GTCT--CTGCCACACTTGACACTCCGTCAAAGTGAGAAGCGAACTAAAGACCAACTGCGG 118

Qy        790 TGAGAAATATTATGATGTTTATGTAATAAAGA 821
              ||  ||||||||||  |   |     |||  |||| |
Db        119 TGGAAAATATTATGTTTATGTAATAAAAAAAA 150


RESULT 7
US-09-644-460-20
; Sequence 20, Application US/09644460
; Patent No. 6657053
; GENERAL INFORMATION:
;  APPLICANT: Fisher, Paul B.
;  TITLE OF INVENTION: Reciprocal Subtraction Differential
;  TITLE OF INVENTION:  Display
;  FILE REFERENCE: 34587-C-PCT-USA
;  CURRENT APPLICATION NUMBER: US/09/644,460
;  CURRENT FILING DATE:  2000-08-23
;  PRIOR APPLICATION NUMBER: PCT/US99/04323
;  PRIOR FILING DATE: 1999-02-26
;  PRIOR APPLICATION NUMBER: US 09/197,889
;  PRIOR FILING DATE: 1998-11-23
;  PRIOR APPLICATION NUMBER: US 09/185,115
;  PRIOR FILING DATE: 1998-11-03
;  PRIOR APPLICATION NUMBER: US 09/032,684
;  PRIOR FILING DATE: 1998-02-27
;  NUMBER OF SEQ ID NOS: 42
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 20
;   LENGTH: 177
;   TYPE: DNA
;   ORGANISM: homo sapiens
US-09-644-460-20

  Query Match             5.4%;  Score 45.2;  DB 4;  Length 177;
  Best Local Similarity   60.5%;  Pred. No. 0.0096;
  Matches   92;  Conservative    0;  Mismatches   58;  Indels    2;  Gaps    1;

Qy        670 GCAGGCAATGAGATTTTTTGCGGGGCAGGGATGGGAATGTTTGTTCATAAATAATTAGAC 729
              | |||||||  |  ||  ||||   | ||    |  |    |  | |  |||  ||||   |||
Db          1 GTAGGCAATAAAATGTTTTCAGAGGTGCGAAAAAGCTTTTGTTTTCTTAAACCATTCTTA 60

Qy        730 ATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGCAAACTGAAGACCAACTCCTA 789
                | |       | |  ||||||  ||  |   ||||   | ||||  ||||  ||||||||||  |
Db         61 GTCT--CTGCCACACTTGACACTCCGTCAAAGTGAGAAGCGAACTAAAGACCAACTGCGG 118

Qy        790 TGAGAAATATTATGATGTTTATGTAATAAAGA 821
              ||  ||||||||||  |   |     |||  |||| |
Db        119 TGGAAAATATTATGTTTATGTAATAAAAAAAA 150


RESULT 8
US-09-621-976-2813
; Sequence 2813, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
;  APPLICANT: Dumas Milne Edwards, J.B.
;  APPLICANT:  Jobert, S.
;  APPLICANT:  Giordano, J.Y.
;  TITLE OF INVENTION: ESTs and Encoded Human Proteins.
;  FILE REFERENCE: GENSET.054PR2
;  CURRENT APPLICATION NUMBER: US/09/621,976
;  CURRENT FILING DATE:  2000-07-21
;  NUMBER OF SEQ ID NOS: 19335
;  SOFTWARE: Patent.pm
; SEQ ID NO 2813
;   LENGTH: 832
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: 235..399
US-09-621-976-2813

  Query Match             5.4%;  Score 45.2;  DB 4;  Length 832;
  Best Local Similarity   24.8%;  Pred. No. 0.018;
  Matches   74;  Conservative   88;  Mismatches  136;  Indels    0;  Gaps    0;

Qy        322 CTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACGAAGGAAGATTGTAACATATCC 381
              |:|:::: ::::  ::|:|: ::|::  ::: :|: | :   :      ::  :: ::
Db        172 CWTKRWRASWWYCWWWGKARKWSTWRKSRSYASARSAKRCCYSCSWGAMSWKYMWRMWRW 231

Qy        382 AGGAGAGCTGCTTCTGCAAGGTGTTCATGATGATGTTGACATTATATTACTGCAAGATTA 441
              :| |     : :    ::::::  :: |: ::::  : ::::: : : : ||:   ::
Db        232 RGWATGAGMKAWRASCMMRRKYAGKSKTSYKSMWMCWTRSWKYCYTKARWTGYYCYRKGG 291

Qy        442 ATGTGGTTTACATATCTTTATGTACTGCCATTTTTTGTTTCTGGTAAACTGGAATATAAA 501
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Db        292 MWGKRGRWYASKKYMWKRWWWCWARMYRYSTGTRASMWWRRWYYTMMMKWWKYAWARAAW 351

Qy        502 GTGAAAGAACAAACATTTGAACATACTTAATGTATTTTTATAGAACTTTGTAAACGAAAG 561

Db        352 RWWAMWWAWRRACAAAATATAATTATTTATGGTACAATTCTTGTACTTTAGCAAATCTGG 411

Qy        562 GAGATTCATGTTTTAGAAGTCTGTCCTTTTTTATATCTTGAAAGAAAATCTATGTATG 619

Db        412 AGTTAGTTCATAGTCAAAGTCAGTTAATATTTCTTAGAGGAAAGTTTTGCTTTTTGTG 469


RESULT 9
US-09-790-988-1/c
; Sequence 1, Application US/09790988
; Patent No. 6632935
; GENERAL INFORMATION:
;  APPLICANT: SHIGENOBU, SHUJI
;  APPLICANT:  WATANABE, HIDEMI
;  APPLICANT:  HATTORI, MASAHIRA
;  APPLICANT:  SAKAKI, YOSHIYUKI
;  TITLE OF INVENTION: GENOME DNA OF BACTERIAL SYMBIONT OF APHIDS
;  FILE REFERENCE: 081356/0159
;  CURRENT APPLICATION NUMBER: US/09/790,988
;  CURRENT FILING DATE:  2001-02-23
;  PRIOR APPLICATION NUMBER: JP2000-107160
;  PRIOR FILING DATE: 2000-04-07
;  NUMBER OF SEQ ID NOS: 7
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 640681
;   TYPE: DNA
;   ORGANISM: Buchnera sp.
US-09-790-988-1

  Query Match             5.4%;  Score 44.8;  DB 4;  Length 640681;
  Best Local Similarity   52.1%;  Pred. No. 0.34;
  Matches  125;  Conservative    0;  Mismatches  112;  Indels    3;  Gaps    1;

Qy        412 TGATGTTGACATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCA 471

Db     618831 TAATTTACATATTCTTTTATTGTAAGATTTGAATTTTAAATATATTTTCATGTTTTCTAT 618772

Qy        472 TTTTTTGTTTCTGGTAAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTTAA 531

Db     618771 TTTTTTTATTTTTGAAAATTAATAATTGACTTTTAAAAAAAACTAATTAATAATTTACAT 618712

Qy        532 TGTATTTTTATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTTTT 591

Db     618711 TGACAATTTTTTTATATATTTTAAGTTCAAAAAA---ATATTTTATAAAAATATACTAAA 618655

Qy        592 TTATATCTTGAAAGAAAATCTATGTATGATGCTATAAAATAAATCCTATTATTTTTCTCA 651

Db     618654 AAATAATTTACAATAGGATCAAAATATTATGTTACACAATTTATTATTAAATCCCAATCA 618595


RESULT 10
US-08-731-722-4
; Sequence 4, Application US/08731722
; Patent No. 5961971
;  GENERAL INFORMATION:
;    APPLICANT:  Martin, Frank N.
;    TITLE OF INVENTION:  Biocontrol of Fungal Soilborne Pathogens
;    TITLE OF INVENTION:  by Pythium oligandrum
;    NUMBER OF SEQUENCES:  8
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Saliwanchik & Saliwanchik
;      STREET:  2421 N.W. 41st Street, Suite A-1
;      CITY:  Gainesville
;      STATE:  FL
;      COUNTRY:  US
;      ZIP:  32606-6669
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/731,722
;      FILING DATE:
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Whitlock, Ted W.
;      REGISTRATION NUMBER:  36,965
;      REFERENCE/DOCKET NUMBER:  UF-161
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  352-375-8100
;      TELEFAX:  352-372-5800
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1218 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA (genomic)
;    ORIGINAL SOURCE:
;      INDIVIDUAL ISOLATE:  17-1
US-08-731-722-4

  Query Match             5.3%;  Score 44.4;  DB 2;  Length 1218;
  Best Local Similarity   49.1%;  Pred. No. 0.034;
  Matches  172;  Conservative    0;  Mismatches  176;  Indels    2;  Gaps    2;

Qy        486 TAAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTTAATGTATTTTTATAGA 545

Db        440 TAACTTTTAAAAAAAAATTAAAATGAAAATACTTCTAATAAGAATATATTTTATTATAAA 499

Qy        546 ACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTTTTTTATATCTTGAAAG 605

Db        500 TATTAATTATTTAAATTGTGTAAATCCACCAGAAATTTTAACTATTATAAATATTG-AAG 558

Qy        606 AAAATCTATGTATGATGCTATAAAATAAATCCTATTATTTTTCTCAGGAATCTGGTTAGG 665

Db        559 AACTTTTACTTATATTTCTAAATAATAATCTGAATTTAAACAGTAGACCCTATGAACCTT 618

Qy        666 AATTGCAGGCAATGAGATTTTTTGCGGGGCAGGGATGGGAATGTTTGTTCATAAATAATT 725

Db        619 TAATAATAGCTATAAGAAATTTTTCAATAGAGAAAGGTTTTATTTTTTTAATAGAAAATT 678

Qy        726 AGACATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGCAAACTGAAGACCAACT 785

Db        679 GTAATTCTTATTTTACTTTAATAAGAAATAAATAATTAATATTTATAATAAA-ATATATT 737

Qy        786 CCTATGAGAAATATTATGATGTTTATGTAATAAAGACATGTAACTGTCTT 835

Db        738 CTTATTAGAAGTATTTTCATTTTAATTTTTTTTTAAAAGTTATATATCTT 787


RESULT 11
US-10-204-708-42
; Sequence 42, Application US/10204708
; Patent No. 6677731
; GENERAL INFORMATION:
;  APPLICANT: OLEK, Alexander
;  APPLICANT:  PIEPENBROCK, Christian
;  APPLICANT:  BERLIN, Kurt
;  TITLE OF INVENTION: Diagnosis of Diseases Associated with DNA Replication
;  TITLE OF INVENTION:  by Assessing DNA Methylation
;  FILE REFERENCE: 5013.1012
;  CURRENT APPLICATION NUMBER: US/10/204,708
;  CURRENT FILING DATE:  2003-05-06
;  PRIOR APPLICATION NUMBER: PCT/EP01/03971
;  PRIOR FILING DATE: 2001-04-06
;  PRIOR APPLICATION NUMBER: DE 10019058.8
;  PRIOR FILING DATE: 2000-04-06
;  PRIOR APPLICATION NUMBER: DE 10019173.8
```

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;  PRIOR FILING DATE: 2000-04-07
;  PRIOR APPLICATION NUMBER: DE 10032529.7
;  PRIOR FILING DATE: 2000-06-30
;  PRIOR APPLICATION NUMBER: DE 10043826.1
;  PRIOR FILING DATE: 2000-09-01
;  NUMBER OF SEQ ID NOS: 98
; SEQ ID NO 42
;   LENGTH: 8537
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-204-708-42

  Query Match             5.2%;  Score 43.8;  DB 4;  Length 8537;
  Best Local Similarity   51.0%;  Pred. No. 0.11;
  Matches  128;  Conservative    0;  Mismatches  122;  Indels    1;  Gaps    1;

Qy        517 TTTGAACATACTTAATGTATTTTTATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTA 576
              |||  |  |  ||  | | ||||||| | ||  || | ||         |||| |||||||
Db       7358 TTTTTATTTTTTTTTTTTTTTTAAAAAAAATTTTGAATTTTTAAGGATTAATGTTTTT 7417

Qy        577 GAAGTCTGTCCTTTTTTATATCTTGAAAGAAAATCTATGTATGATGCTATAAAATAAATC 636
              ||  | ||   | |||| ||| ||  || ||  |   | | |  |  |||  | |||||
Db       7418 GAGTTATGAGATATTTT-TATATTTTAATAATTTTATTTTTTATTTTTATTGATTAAATT 7476

Qy        637 CTATTATTTTTCTCAGGAATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGCGGGGCA 696
              ||   |   |   |  | |  ||   ||    |   | |||||  |||
Db       7477 AGTTTGAGTAGTTTTTGTTTTTTTTTTTTAAAATAATTTATTGAGAATTTGGAAATAAGG 7536

Qy        697 GGGATGGGAATGTTTGTTCATAAATAATTAGACATTTTCTATAGATATTTGACATTCTGC 756
              ||  || | ||| || |||  ||| | |  ||||| |    ||||||   | | ||
Db       7537 TAAATTAGATTTTTTTTTAATAGTTAAATTGGTATTTTTTGAGAATATTTATAAATGTGT 7596

Qy        757 GAAAGCAACAA 767
              ||   || ||
Db       7597 TAATTGAAAAA 7607


RESULT 12
US-09-221-017B-77/c
; Sequence 77, Application US/09221017B
; Patent No. 6444799
;  GENERAL INFORMATION:
;    APPLICANT:  Ross, Bruce C.
;    TITLE OF INVENTION:  P. GINGIVALIS NUCLEOTIDES AND USES THEREOF
;    NUMBER OF SEQUENCES:  1120
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MORRISON & FOERSTER
;      STREET:  755 PAGE MILL ROAD
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94304-1018
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  Windows
;      SOFTWARE:  FastSEQ for Windows Version 2.0b
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/221,017B
;      FILING DATE:  23-DEC-1998
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PP1182
;      FILING DATE:  31-DEC-1997
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PP1546
;      FILING DATE:  30-JAN-1998
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PP2911
;      FILING DATE:  09-APR-1998
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/AU98/01023
;      FILING DATE:  10-DEC-1998
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Monroy, Gladys H
;      REGISTRATION NUMBER:  32,430
;      REFERENCE/DOCKET NUMBER:  27340-20021.00
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  650-813-5600
;      TELEFAX:  650-494-0792
;      TELEX:  706141
;  INFORMATION FOR SEQ ID NO:  77:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1189 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  circular
;    MOLECULE TYPE:  DNA (genomic)
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  UNKNOWN
;    ORIGINAL SOURCE:
;      ORGANISM:  PORYPHYROMONAS GINGIVALIS
;    FEATURE:
;      NAME/KEY:  misc_feature
;      LOCATION:  1..1189
US-09-221-017B-77

  Query Match             5.1%;  Score 43;  DB 4;  Length 1189;
  Best Local Similarity   51.3%;  Pred. No. 0.078;
  Matches  100;  Conservative    0;  Mismatches   95;  Indels    0;  Gaps    0;

Qy        420 ACATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCATTTTTTGT 479
              || ||||||| ||| |  | ||    |||| |||| |  |||||  |    |  ||
Db        485 ACTTTATATTGATGCCATGTCAAGTGTGTTTTCATACATAACTGTACAACAGGGTGATGA 426

Qy        480 TTCTGGTAAACTGGAATATAAAGTGAAAGAACAAACATTTGAACATACTTAATGTATTTT 539
              || |   |||| | |  |||| | ||     ||   || ||| | ||  | |   | || |
Db        425 TTATAAGAAACAGAATGATAATGAGATTTTACCGCCAGTTGTATATGATGAGAATGTTGT 366

Qy        540 TATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTTTTTTATATCT 599
              |  |  |||| | |||  ||| | | |          || |   | | |  | | |  |
Db        365 TGCAATACTTAGAAAAATAAAAGGGTTCATCAGAGAGGATGATGGACATCATCTGTTACA 306

Qy        600 TGAAAGAAAATCTAT 614
              |  ||  ||   |||
Db        305 TCGAAATAATGATAT 291


RESULT 13
US-08-299-953-1/c
; Sequence 1, Application US/08299953
; Patent No. 5646333
;  GENERAL INFORMATION:
;    APPLICANT:  Dobres, Michael S. and Mandaci, Sevnur
;    TITLE OF INVENTION:  A Plant Promoter Useful for Directing the
;    TITLE OF INVENTION:  Expression of Foreign Proteins to the Plant Epidermis
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Woodcock Washburn Kurtz Mackiewicz & No. 5646333ris
;      STREET:  One Liberty Place 46th. Floor
;      CITY:  Philadelphia
;      STATE:  PA
;      ZIP:  19103
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/299,953
;      FILING DATE:  Herewith
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Beardell, Lori Y.
```

```
;       REGISTRATION NUMBER:  34,293
;       REFERENCE/DOCKET NUMBER:  NOVA-0003
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  215-564-8960
;       TELEFAX:  215-568-3439
;   INFORMATION FOR SEQ ID NO:  1:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  2861 base pairs
;       TYPE:  nucleic acid
;       STRANDEDNESS:  double
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  DNA (genomic)
;     HYPOTHETICAL:  NO
;     ANTI-SENSE:  NO
US-08-299-953-1

  Query Match             5.1%;  Score 42.8;  DB 1;  Length 2861;
  Best Local Similarity   48.7%;  Pred. No. 0.13;
  Matches  113;  Conservative    1;  Mismatches  118;  Indels    0;  Gaps    0;

Qy        403 TGTTCATGATGATGTTGACATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTAT 462
              ||||  | || ||| ||| ||    | || |  |  | ||  |    | |  || | | |
Db        826 TGTTAGTAATAATGGTGATATGCCAGTATTAAATCAATATTAAAATATTAATTTATATCA 767

Qy        463 GTACTGCCATTTTTTGTTTCTGGTAAACTGGAATATAAAGTGAAAGAACAAACATTTGAA 522
              |  |   |||  || |||     |||:|  |  ||  |  |  ||  | | | || | ||
Db        766 TTTTTTAGATTAATTTTTTTATAAAAAASTTAATCATTTATTTTAAACAAATAAATGTTAA 707

Qy        523 CATACTTAATGTATTTTTATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTC 582
              | |  | |  |   | | |   |||  ||  |  |     |   |  ||| | |
Db        706 TAAATATCACATTAATGTTTTTTTCTTCTTAGTCTGATCTTTAAAAAATATTTGGCATAA 647

Qy        583 TGTCCTTTTTTATATCTTGAAAGAAAATCTATGTATGATGCTATAAAATAAA 634
              | |  ||||| ||||||  ||  ||  | |||  |   || | | | || ||
Db        646 TTTTTTTTTTAATATCTATAACAAATTTTTATAAAGAGTGATGTTATATTAA 595


RESULT 14
US-08-459-415-1/c
; Sequence 1, Application US/08459415
; Patent No. 5744334
;  GENERAL INFORMATION:
;    APPLICANT:  Dobres, Michael S. and Mandaci, Sevnur
;    TITLE OF INVENTION:  A Plant Promoter Useful for Directing the
;    TITLE OF INVENTION:  Expression of Foreign Proteins to the Plant Epidermis
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Woodcock Washburn Kurtz Mackiewicz & No. 5744334ris
;      STREET:  One Liberty Place 46th. Floor
;      CITY:  Philadelphia
;      STATE:  PA
;      ZIP:  19103
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/459,415
;      FILING DATE:  02-JUN-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/299,953
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Beardell, Lori Y.
;      REGISTRATION NUMBER:  34,293
;      REFERENCE/DOCKET NUMBER:  NOVA-0003
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-564-8960
;      TELEFAX:  215-568-3439
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;       LENGTH:  2861 base pairs
;       TYPE:  nucleic acid
;       STRANDEDNESS:  double
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  DNA (genomic)
;     HYPOTHETICAL:  NO
;     ANTI-SENSE:  NO
US-08-459-415-1

  Query Match             5.1%;  Score 42.8;  DB 1;  Length 2861;
  Best Local Similarity   48.7%;  Pred. No. 0.13;
  Matches  113;  Conservative    1;  Mismatches  118;  Indels    0;  Gaps    0;

Qy        403 TGTTCATGATGATGTTGACATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTAT 462
              ||||  | || ||| ||| ||    | || |  |  | ||  |    | |  || | | |
Db        826 TGTTAGTAATAATGGTGATATGCCAGTATTAAATCAATATTAAAATATTAATTTATATCA 767

Qy        463 GTACTGCCATTTTTTGTTTCTGGTAAACTGGAATATAAAGTGAAAGAACAAACATTTGAA 522
              |  |   |||  || |||     |||:|  |  ||  |  |  ||  | | | || | ||
Db        766 TTTTTTAGATTAATTTTTTTATAAAAAASTTAATCATTTATTTTAAACAAATAAATGTTAA 707

Qy        523 CATACTTAATGTATTTTTATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTC 582
              | |  | |  |   | | |   |||  ||  |  |     |   |  ||| | |
Db        706 TAAATATCACATTAATGTTTTTTTCTTCTTAGTCTGATCTTTAAAAAATATTTGGCATAA 647

Qy        583 TGTCCTTTTTTATATCTTGAAAGAAAATCTATGTATGATGCTATAAAATAAA 634
              | |  ||||| ||||||  ||  ||  | |||  |   || | | | || ||
Db        646 TTTTTTTTTTAATATCTATAACAAATTTTTATAAAGAGTGATGTTATATTAA 595


RESULT 15
US-09-066-687-1/c
; Sequence 1, Application US/09066687
; Patent No. 6339185
;  GENERAL INFORMATION:
;    APPLICANT:  Dobres, Michael S. and Mandaci, Sevnur
;    TITLE OF INVENTION:  A Plant Promoter Useful for Directing the
;    TITLE OF INVENTION:  Expression of Foreign Proteins to the Plant Epidermis
;    NUMBER OF SEQUENCES:  7
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Woodcock Washburn Kurtz Mackiewicz & No. 6339185ris
;      STREET:  One Liberty Place 46th. Floor
;      CITY:  Philadelphia
;      STATE:  PA
;      ZIP:  19103
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/066,687
;      FILING DATE:  Herewith
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Beardell, Lori Y.
;      REGISTRATION NUMBER:  34,293
;      REFERENCE/DOCKET NUMBER:  NOVA-0003
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  215-564-8960
;      TELEFAX:  215-568-3439
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;       LENGTH:  2861 base pairs
;       TYPE:  nucleic acid
;       STRANDEDNESS:  double
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  DNA (genomic)
;     HYPOTHETICAL:  NO
;     ANTI-SENSE:  NO
US-09-066-687-1

  Query Match             5.1%;  Score 42.8;  DB 4;  Length 2861;
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Best Local Similarity 48.7%; Pred. No. 0.13;
Matches 113; Conservative 1; Mismatches 118; Indels 0; Gaps 0;

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Qy        403 TGTTCATGATGATGTTGACATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTAT 462
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Db        826 TGTTAGTAATAATGGTGATATGCCAGTATTAAATCAATATTAAAATATTAATTTATATCA 767

Qy        463 GTACTGCCATTTTTTGTTTCTGGTAAACTGGAATATAAAGTGAAAGAACAAACATTTGAA 522
              |  |   |||  || |||     |||:|  |  ||  | |  ||  | | | || | ||
Db        766 TTTTTTAGATTAATTTTTTTATAAAAAASTTAATCATTTATTTAAACAAATAAATGTTAA 707

Qy        523 CATACTTAATGTATTTTTATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTC 582
              | |  | |  |   | | |    |||  ||  |  |      |   |   ||| | |
Db        706 TAAATATCACATTAATGTTTTTTTCTTCTTAGTCTGATCTTTAAAAAATATTTGGCATAA 647

Qy        583 TGTCCTTTTTTATATCTTGAAAGAAAATCTATGTATGATGCTATAAAATAAA 634
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Db        646 TTTTTTTTTTAATATCTATAACAAATTTTTATAAAGAGTGATGTTATATTAA 595
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Search completed: August 21, 2004, 15:35:35
Job time : 83.1393 secs

GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: August 21, 2004, 15:09:35 ; Search time 550.105 Seconds
(without alignments)
6964.965 Million cell updates/sec

Title: US-09-648-310-1
Perfect score: 780
Sequence: 1 ggcacgagctctcctcgtcc.....gtaataaaaaaaaatcatgt 780

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 3228839 seqs, 2456066551 residues

Total number of hits satisfying chosen parameters: 6457678

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_NA:*
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14: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
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19: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	780	100.0	780	13	US-10-373-556-1	Sequence 1, Appli
2	780	100.0	780	13	US-10-373-556-5	Sequence 5, Appli
3	754.8	96.8	800	17	US-10-725-969A-26	Sequence 26, Appl
4	335.2	43.0	835	13	US-10-373-556-3	Sequence 3, Appli
5	335.2	43.0	835	13	US-10-373-556-6	Sequence 6, Appli
6	320.4	41.1	876	13	US-10-342-887-156	Sequence 156, App
7	320.4	41.1	876	13	US-10-172-118-156	Sequence 156, App
8	302	38.7	786	17	US-10-641-643-79	Sequence 79, Appl
9	288.2	36.9	778	9	US-09-925-300-545	Sequence 545, App
10	263	33.7	594	12	US-09-969-034-750	Sequence 750, App
11	250.4	32.1	717	12	US-09-969-034-748	Sequence 748, App
12	241.6	31.0	483	13	US-10-085-783A-56189	Sequence 56189, A
13	241.6	31.0	483	16	US-10-242-535A-56189	Sequence 56189, A
14	218.2	28.0	400	13	US-10-085-783A-21733	Sequence 21733, A
15	218.2	28.0	400	16	US-10-242-535A-21733	Sequence 21733, A
c 16	215.6	27.6	627	12	US-09-969-034-557	Sequence 557, App
c 17	206.6	26.5	552	9	US-09-920-300A-939	Sequence 939, App
c 18	206.6	26.5	552	14	US-10-033-528-939	Sequence 939, App
c 19	206.6	26.5	552	15	US-10-099-926-939	Sequence 939, App
20	187.4	24.0	458	10	US-09-918-995-26075	Sequence 26075, A
21	157	20.1	177	17	US-10-725-969A-20	Sequence 20, Appl
22	122.4	15.7	388	9	US-09-925-299-318	Sequence 318, App
23	122.4	15.7	388	10	US-09-925-299-318	Sequence 318, App
24	117.8	15.1	533	13	US-10-425-114-19867	Sequence 19867, A
25	109.6	14.1	486	9	US-09-938-842A-355	Sequence 355, App
26	109.6	14.1	486	11	US-09-938-842A-355	Sequence 355, App
c 27	109.6	14.1	492	10	US-09-770-961-618	Sequence 618, App
28	101.2	13.0	818	17	US-10-437-963-43648	Sequence 43648, A
c 29	92.8	11.9	365	9	US-09-878-178-2101	Sequence 2101, Ap
c 30	92.8	11.9	365	14	US-10-046-935-2101	Sequence 2101, Ap
c 31	92.8	11.9	365	15	US-10-146-502-2101	Sequence 2101, Ap
c 32	92.2	11.8	406	9	US-09-880-107-687	Sequence 687, App
33	87.4	11.2	268	9	US-09-294-093B-2020	Sequence 2020, Ap
c 34	85.4	10.9	716	13	US-10-424-599-94878	Sequence 94878, A
35	63.2	8.1	289	9	US-09-294-093B-4150	Sequence 4150, Ap
c 36	46.4	5.9	15161	13	US-10-221-613-385	Sequence 385, App
37	43.4	5.6	575	13	US-10-027-632-202772	Sequence 202772,
38	43.4	5.6	575	16	US-10-027-632-202772	Sequence 202772,
39	43.4	5.6	11155	15	US-10-311-455-578	Sequence 578, App
40	43.2	5.5	34688	17	US-10-433-793-89	Sequence 89, Appl
41	42.2	5.4	18183	13	US-10-221-714A-1	Sequence 1, Appli
42	41.2	5.3	1008	12	US-09-876-143-973	Sequence 973, App
43	41	5.3	7589	15	US-10-240-453-263	Sequence 263, App
44	40.8	5.2	60	10	US-09-908-975-22102	Sequence 22102, A
c 45	40.6	5.2	631	10	US-09-814-353-5993	Sequence 5993, Ap

ALIGNMENTS

RESULT 1
US-10-373-556-1
; Sequence 1, Application US/10373556
; Publication No. US20030224402A1
; GENERAL INFORMATION:
; APPLICANT: Paul B. Fisher
; APPLICANT: Dong-chul Kang
; APPLICANT: Zao-Zhong Su
; TITLE OF INVENTION: PROGRESSION SUPPRESSED GENE 13 (PSGen13)
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: A34586-A-PCT-USA (070050.2305)
; CURRENT APPLICATION NUMBER: US/10/373,556
; CURRENT FILING DATE: 2003-02-24
; PRIOR APPLICATION NUMBER: PCT/US01/26795
; PRIOR FILING DATE: 2001-08-27
; PRIOR APPLICATION NUMBER: 09/648,310
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 780
; TYPE: DNA
; ORGANISM: rattus norvegicus
US-10-373-556-1

Query Match 100.0%; Score 780; DB 13; Length 780;
Best Local Similarity 100.0%; Pred. No. 2e-213;
Matches 780; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 GGCACGAGCTCTCCTCGTCCCCTCCCTTCTCCACTGCAGCCTTTCTCTTAGCCCGAACCA 60
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Db          1 GGCACGAGCTCTCCTCGTCCCCTCCCTTCTCCACTGCAGCCTTTCTCTTAGCCCGAACCA 60

Qy         61 CTTCCTTCTTCTGCTTGTTCCTCCCTAGGGCGCGGAAGCTGAGTGCAGGGTTCAGACCCA 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 CTTCCTTCTTCTGCTTGTTCCTCCCTAGGGCGCGGAAGCTGAGTGCAGGGTTCAGACCCA 120
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Qy        121 CGCGGCGAGCAGCTCTTCAGTGAAGAAGGAAGCAATCGGAGGGTCAGCAATGAACGTGGA 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 CGCGGCGAGCAGCTCTTCAGTGAAGAAGGAAGCAATCGGAGGGTCAGCAATGAACGTGGA 180

Qy        181 GCATGAGGTTAACCTCCTGGTGGAGGAAATTCATCGTCTGGGTTCCAAAAATGCCGATGG 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 GCATGAGGTTAACCTCCTGGTGGAGGAAATTCATCGTCTGGGTTCCAAAAATGCCGATGG 240

Qy        241 GAAACTGAGTGTGAAGTTTGGGGTCCTCTTCCAAGACGACAGATGTGCCAATCTCTTTGA 300
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Db        241 GAAACTGAGTGTGAAGTTTGGGGTCCTCTTCCAAGACGACAGATGTGCCAATCTCTTTGA 300

Qy        301 AGCGTTGGTGGGAACTCTGAAAGCCGCAAAACGAAGGAAGATTGTTACGTACGCAGGAGA 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 AGCGTTGGTGGGAACTCTGAAAGCCGCAAAACGAAGGAAGATTGTTACGTACGCAGGAGA 360

Qy        361 GCTGCTTTTGCAAGGTGTTCATGATGATGTTGACATTGTATTGCTGCAAGATTAATGTGG 420
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Db        361 GCTGCTTTTGCAAGGTGTTCATGATGATGTTGACATTGTATTGCTGCAAGATTAATGTGG 420

Qy        421 TTTGCAGATCTGGGGGTATCTGGTAAACTGGAATAATTAAGTTAAAGGACAAACATGAAG 480
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Db        421 TTTGCAGATCTGGGGGTATCTGGTAAACTGGAATAATTAAGTTAAAGGACAAACATGAAG 480

Qy        481 TTCCTTATGTATTTTTATAGACCTTTGTAAACAAAAGGGGACTTGTTGAGAAGTCCTGTT 540
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Db        481 TTCCTTATGTATTTTTATAGACCTTTGTAAACAAAAGGGGACTTGTTGAGAAGTCCTGTT 540

Qy        541 TTTATACCTTGGAGCAAAACATTACAATGTAAAAATAAACAAAACCTGTTATTTTTTTTTT 600
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Qy        601 TCTTAAGAAGGTAATCGGGAGACGTAGGCAATAAAATGTTTTCAGAGGTGCGAAAAAGCT 660
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Db        601 TCTTAAGAAGGTAATCGGGAGACGTAGGCAATAAAATGTTTTCAGAGGTGCGAAAAAGCT 660

Qy        661 TTTGTTTTCTTAAACCATTCTTAGTCTCTGCCACACTTGACACTCCGTCAAAGTGAGAAG 720
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Db        661 TTTGTTTTCTTAAACCATTCTTAGTCTCTGCCACACTTGACACTCCGTCAAAGTGAGAAG 720

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RESULT 2
US-10-373-556-5
; Sequence 5, Application US/10373556
; Publication No. US20030224402A1
; GENERAL INFORMATION:
; APPLICANT: Paul B. Fisher
; APPLICANT: Dong-chul Kang
; APPLICANT: Zao-Zhong Su
; TITLE OF INVENTION: PROGRESSION SUPPRESSED GENE 13 (PSGen13)
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: A34586-A-PCT-USA (070050.2305)
; CURRENT APPLICATION NUMBER: US/10/373,556
; CURRENT FILING DATE: 2003-02-24
; PRIOR APPLICATION NUMBER: PCT/US01/26795
; PRIOR FILING DATE: 2001-08-27
; PRIOR APPLICATION NUMBER: 09/648,310
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 780
; TYPE: DNA
; ORGANISM: rattus norvegicus
US-10-373-556-5

Query Match 100.0%; Score 780; DB 13; Length 780;
Best Local Similarity 100.0%; Pred. No. 2e-213;
Matches 780; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db          1 GGCACGAGCTCTCCTCGTCCCCTCCCTTCTCCACTGCAGCCTTTCTCTTAGCCCGAACCA 60

Qy         61 CTTCCTTCTTCTGCTTGTTCCTCCCTAGGGCGCGGAAGCTGAGTGCAGGGTTCAGACCCA 120
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Qy        121 CGCGGCGAGCAGCTCTTCAGTGAAGAAGGAAGCAATCGGAGGGTCAGCAATGAACGTGGA 180
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Qy        181 GCATGAGGTTAACCTCCTGGTGGAGGAAATTCATCGTCTGGGTTCCAAAAATGCCGATGG 240
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Qy        241 GAAACTGAGTGTGAAGTTTGGGGTCCTCTTCCAAGACGACAGATGTGCCAATCTCTTTGA 300
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Qy        301 AGCGTTGGTGGGAACTCTGAAAGCCGCAAAACGAAGGAAGATTGTTACGTACGCAGGAGA 360
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Db        301 AGCGTTGGTGGGAACTCTGAAAGCCGCAAAACGAAGGAAGATTGTTACGTACGCAGGAGA 360

Qy        361 GCTGCTTTTGCAAGGTGTTCATGATGATGTTGACATTGTATTGCTGCAAGATTAATGTGG 420
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Db        361 GCTGCTTTTGCAAGGTGTTCATGATGATGTTGACATTGTATTGCTGCAAGATTAATGTGG 420

Qy        421 TTTGCAGATCTGGGGGTATCTGGTAAACTGGAATAATTAAGTTAAAGGACAAACATGAAG 480
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Qy        541 TTTATACCTTGGAGCAAAACATTACAATGTAAAAATAAACAAAACCTGTTATTTTTTTTT 600
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Qy        601 TCTTAAGAAGGTAATCGGGAGACGTAGGCAATAAAATGTTTTCAGAGGTGCGAAAAAGCT 660
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Db        721 CGAACTAAAGACCAACTGCGGTGGAAAATATTATGTTTATGTAATAAAAAAAAATCATGT 780
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RESULT 3
US-10-725-969A-26
; Sequence 26, Application US/10725969A
; Publication No. US20040132076A1
; GENERAL INFORMATION:
; APPLICANT: Fisher, Paul B.
; TITLE OF INVENTION: Reciprocal Subtraction Differential Display
; FILE REFERENCE: 34587-C-PCT-USA-I
; CURRENT APPLICATION NUMBER: US/10/725,969A
; CURRENT FILING DATE: 2003-12-02
; PRIOR APPLICATION NUMBER: US 09/644,460
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: PCT/US99/04323
; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: US 09/197,889
; PRIOR FILING DATE: 1998-11-23
; PRIOR APPLICATION NUMBER: US 09/185,115
; PRIOR FILING DATE: 1998-11-03
; PRIOR APPLICATION NUMBER: US 09/032,684

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;  PRIOR FILING DATE: 1998-02-27
;  NUMBER OF SEQ ID NOS: 42
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 26
;    LENGTH: 800
;    TYPE: DNA
;    ORGANISM: rattus norvegicus
US-10-725-969A-26

  Query Match             96.8%;  Score 754.8;  DB 17;  Length 800;
  Best Local Similarity   99.5%;  Pred. No. 3.5e-206;
  Matches  778;  Conservative    0;  Mismatches    2;  Indels    2;  Gaps    2;

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Db          1 GGCACGAGCTCTCCTCGTCCCCTCCCTTCTCCACTGCAGCCTTTCTCTTAGCCCGAACCA 60

Qy         61 CTTCCTTCTTCTGCTTGTTCCTCCCTAGGGCGCGGAAGCTGAGTGCAGGGTTCAGACCCA 120
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Db         61 CTTCCTTCTTCTGCTTGTTCCTCCCTAGGGCGCGGAAGCTGAGTGCAGGGTTCAGACCCA 120

Qy        121 CGCGGCGAGCAGCTCTTCAGTGAAGAAGGAAGCAATCGGAGGGTCAGCAATGAACGTGGA 180
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Db        121 CGCGGCGAGCAGCTCTTCAGTGAAGAAGGAAGCAATCGGAGGGTCAGCAATGAACGTGGA 180

Qy        181 GCATGAGGTTAACCTCCTGGTGGAGGAAATTCATCGTCTGGGTTCCAAAAATGCCGATGG 240
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Db        181 GCATGAGGTTAACCTCCTGGTGGAGGAAATTCATCGTCTGGGTTCCAAAAATGCCGATGG 240

Qy        241 GAAACTGAGTGTGAAGTTTGGGGTCCTCTTCCAAGACGACAGATGTGCCAATCTCTTTG- 299
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Db        241 GAAACTGAGTGTGAAGTTTGGGGTCCTCTTCCAAGACGACAGATGTGCCAATCTCTTTGA 300

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Db        301 AACCGTTGGTGGGAACTCTGAAAGCCCGCAAAACGAAGGAAGATTGTTACGTACGCAGAA 360

Qy        359 GAGCTGCTTTTGCAAGGTGTTCATGATGATGTTGACATTGTATTGCTGCAAGATTAATGT 418
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Db        361 GAGCTGCTTTTGCAAGGTGTTCATGATGATGTTGACATTGTATTGCTGCAAGATTAATGT 420

Qy        419 GGTTTGCAGATCTGGGGGTATCTGGTAAACTGGAATAATTAAGTTAAAGGACAAACATGA 478
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Db        421 GGTTTGCAGATCTGGGGGTATCTGGTAAACTGGAATAATTAAGTTAAAGGACAAACATGA 480

Qy        479 AGTTCCTTATGTATTTTTATAGACCTTTGTAAACAAAAGGGGACTTGTTGAGAAGTCCTG 538
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Db        481 AGTTCCTTATGTATTTTTATAGACCTTTGTAAACAAAAGGGGACTTGTTGAGAAGTCCTG 540

Qy        539 TTTTTATACCTTGGAGCAAAACATTACAATGTAAAAATAAACAAAACCTGTTATTTTTTT 598
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 TTTTTATACCTTGGAGCAAAACATTACAATGTAAAAATAAACAAAACCTGTTATTTTTTT 600

Qy        599 TTTCTTAAGAAGGTAATCGGGAGACGTAGGCAATAAAATGTTTTCAGAGGTGCGAAAAAG 658
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        601 TTTCTTAAGAAGGTAATCGGGAGACGTAGGCAATAAAATGTTTTCAGAGGTGCGAAAAAG 660

Qy        659 CTTTTGTTTTCTTAAACCATTCTTAGTCTCTGCCACACTTGACACTCCGTCAAAGTGAGA 718
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        661 CTTTTGTTTTCTTAAACCATTCTTAGTCTCTGCCACACTTGACACTCCGTCAAAGTGAGA 720

Qy        719 AGCGAACTAAAGACCAACTGCGGTGGAAAATATTATGTTTATGTAATAAAAAAAAATCAT 778
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        721 AGCGAACTAAAGACCAACTGCGGTGGAAAATATTATGTTTATGTAATAAAAAAAAATCAT 780

Qy        779 GT 780
              ||
Db        781 GT 782


RESULT 4
US-10-373-556-3
; Sequence 3, Application US/10373556
; Publication No. US20030224402A1
; GENERAL INFORMATION:
;  APPLICANT: Paul B. Fisher
;  APPLICANT:  Dong-chul Kang
;  APPLICANT:  Zao-Zhong Su
;  TITLE OF INVENTION: PROGRESSION SUPPRESSED GENE 13 (PSGen13)
;  TITLE OF INVENTION:  AND USES THEREOF
;  FILE REFERENCE: A34586-A-PCT-USA (070050.2305)
;  CURRENT APPLICATION NUMBER: US/10/373,556
;  CURRENT FILING DATE:  2003-02-24
;  PRIOR APPLICATION NUMBER: PCT/US01/26795
;  PRIOR FILING DATE: 2001-08-27
;  PRIOR APPLICATION NUMBER: 09/648,310
;  PRIOR FILING DATE: 2000-08-25
;  NUMBER OF SEQ ID NOS: 8
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
;    LENGTH: 835
;    TYPE: DNA
;    ORGANISM: homo sapiens
US-10-373-556-3

  Query Match             43.0%;  Score 335.2;  DB 13;  Length 835;
  Best Local Similarity   69.1%;  Pred. No. 1.7e-85;
  Matches  539;  Conservative    0;  Mismatches  218;  Indels   23;  Gaps    5;

Qy         16 CGTCCCCTCCCTTCTCCACTGCAGCCTTTCTCTTAGCCCGAACCACTTCCTTCTTCTGCT 75
              | | | |  ||| |||||| || | |||||||| |||  | ||||||||||| |  ||
Db         43 CCTGCTCCTCCTCCTCCACAGCCGTCTTTCTCTTTGCCTCAGCCACTTCCTTCCTTCGCC 102

Qy         76 TGTTCCTCCCTAGGGCGCGGAAGCTGAGTGCAGGGTTCAGACCCACGCGGCGAGCAGCTC 135
              |  |||||| || || | ||||  |    | |||| ||||||||||||||||
Db        103 TCACCCTCCCCAGTGCACTGAAGAAGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCT 162

Qy        136 TTCAGTGAAGAAGGAAGCAATCGGAGGGTCAGCAATGAACGTGGAGCATGAGGTTAACCT 195
                 | |     || |   | ||| | |||||||||| ||||| || ||||||||||||
Db        163 CCGGCGGGAAGGAAAACCGCGCAGAGAGGCAGCAATGAATGTGGATCACGAGGTTAACCT 222

Qy        196 CCTGGTGGAGGAAATTCATCGTCTGGGTTCCAAAAATGCCGATGGGAAACTGAGTGTGAA 255
              | | |||||||||||||||||| |||||||| ||||| ||  | || |||||
Db        223 CTTAGTGGAGGAAATTCATCGTTTGGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAA 282

Qy        256 GTTTGGGGTCCTCTTCCAAGACGACAGATGTGCCAATCTCTTTGAAGCGTTGGTGGGAAC 315
              ||||||||||||||||  || || | |||||||| |||||||||| ||||| |||||
Db        283 ATTTGGGGTCCTCTTCCGTGATGATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAAC 342

Qy        316 TCTGAAAGCCGCAAAACGAAGGAAGATTGTTACGTACGCAGGAGAGCTGCTTTTGCAAGG 375
              ||| |||||| |||||||||||||||||||| || ||  ||||||||||||||| |||||||
Db        343 TCTTAAAGCTGCAAAACGAAGGAAGATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGG 402

Qy        376 TGTTCATGATGATGTTGACATTGTATTGCTGCAAGATTAATGTGGTTTGCAGATCTGGGG 435
              |||||||||||||||||||||||| |||| |||||||||||||||||| || ||||
Db        403 TGTTCATGATGATGTTGACATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTAT 462

Qy        436 GTA---------------TCTGGTAAACTGGAATAATTAAGTTAAAGGACAAACAT---G 477
              |||               |||||||||||||||| || |||| |||| ||||||||
Db        463 GTACTGCCATTTTTTGTTTCTGGTAAACTGGAAT-ATAAAGTGAAAGAACAAACATTTGA 521

Qy        478 AAGTTCCTTATGTATTTTTATAGACCTTTGTAAACAAAAGGGGACT--TGTTGAGAAGTC 535
              | | | | ||||||||||||||||| |||||||||| ||||| || |  ||||     |
Db        522 ACATACTTAATGTATTTTTATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGT 581

Qy        536 CTGTTTTTATACCTTGGAGCAAAACATTACAATGTAAAAATAAACAAAACCTGTTATTTT 595
              |||| || |  |  ||| |  | ||||| |  | ||||  |  | ||
Db        582 CTGTCCTTTTTTATATCTTGAAAGAAAATCTATGTATGATGCTATAAAATAAATCCTATT 641

Qy        596 TTTTTTCTTAAGAAGGTAATCGGGAGACGTAGGCAATAAAATGTTTTCAGAGGTGCGAAA 655
              ||||||| | ||| | | ||| | |||||||| | || |||| | ||  | |
Db        642 ATTTTTCTCAGGAATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGCGGGGCAGGGAT 701

Qy        656 AAGCTTTTGTTTTCTTAAACCATTCTTAGTCT--CTGCCACACTTGACACTCCGTCAAAG 713
              |  | | | ||| |||  |||      | |        | | |||||| || |  ||||
Db        702 GGGAATGTTTGTTCATAAATAATTAGACATTTTCTATAGATATTTGACATTCTGCGAAAG 761
```

```
Qy        714 TGAGAAGCGAACTAAAGACCAACTGCGGTGGAAAATATTATGTTTATGTAATAAAAAAAA 773
              | |||| |||| |||||||||| |  ||  |||||||||| | |    ||| ||| |
Db        762 CAACAAGCAAACTGAAGACCAACTCCTATGAGAAATATTATGATGTTTATGTAATAAAGA 821


RESULT 5
US-10-373-556-6
; Sequence 6, Application US/10373556
; Publication No. US20030224402A1
; GENERAL INFORMATION:
;  APPLICANT: Paul B. Fisher
;  APPLICANT:  Dong-chul Kang
;  APPLICANT:  Zao-Zhong Su
;  TITLE OF INVENTION: PROGRESSION SUPPRESSED GENE 13 (PSGen13)
;  TITLE OF INVENTION:  AND USES THEREOF
;  FILE REFERENCE: A34586-A-PCT-USA (070050.2305)
;  CURRENT APPLICATION NUMBER: US/10/373,556
;  CURRENT FILING DATE:  2003-02-24
;  PRIOR APPLICATION NUMBER: PCT/US01/26795
;  PRIOR FILING DATE: 2001-08-27
;  PRIOR APPLICATION NUMBER: 09/648,310
;  PRIOR FILING DATE: 2000-08-25
;  NUMBER OF SEQ ID NOS: 8
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
;   LENGTH: 835
;   TYPE: DNA
;   ORGANISM: homo sapiens
US-10-373-556-6

  Query Match             43.0%;  Score 335.2;  DB 13;  Length 835;
  Best Local Similarity   69.1%;  Pred. No. 1.7e-85;
  Matches  539;  Conservative    0;  Mismatches  218;  Indels   23;  Gaps    5;

Qy         16 CGTCCCCTCCCTTCTCCACTGCAGCCTTTCTCTTAGCCCGAACCACTTCCTTCTTCTGCT 75
              | | | |  ||| |||||| || | |||||||||| |||  | ||||||||||| |  ||
Db         43 CCTGCTCCTCCTCCTCCACAGCCGTCTTTCTCTTTGCCTCAGCCACTTCCTTCCTTCGCC 102

Qy         76 TGTTCCTCCCTAGGGCGCGGAAGCTGAGTGCAGGGTTCAGACCCACGCGGCGAGCAGCTC 135
              |   |||||| || || | ||||  |    | |||| ||||||||||||||||
Db        103 TCACCCTCCCCAGTGCACTGAAGAAGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCT 162

Qy        136 TTCAGTGAAGAAGGAAGCAATCGGAGGGTCAGCAATGAACGTGGAGCATGAGGTTAACCT 195
                 | |     || |   | ||| | |||||||||| ||||| || ||||||||||
Db        163 CCGGCGGGAAGGAAAACCGCGCAGAGAGGCAGCAATGAATGTGGATCACGAGGTTAACCT 222

Qy        196 CCTGGTGGAGGAAATTCATCGTCTGGGTTCCAAAAATGCCGATGGGAAACTGAGTGTGAA 255
              | | ||||||||||||||||||| ||||||| |||||||| ||||| ||  | || ||||||
Db        223 CTTAGTGGAGGAAATTCATCGTTTGGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAA 282

Qy        256 GTTTGGGGTCCTCTTCCAAGACGACAGATGTGCCAATCTCTTTGAAGCGTTGGTGGGAAC 315
              ||||||||||||||||  || || | |||||||| |||||||||| ||||| |||||
Db        283 ATTTGGGGTCCTCTTCCGTGATGATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAAC 342

Qy        316 TCTGAAAGCCGCAAAACGAAGGAAGATTGTTACGTACGCAGGAGAGCTGCTTTTGCAAGG 375
              ||| ||||| |||||||||||||||||||| || ||  |||||||||||||| |||||||
Db        343 TCTTAAAGCTGCAAAACGAAGGAAGATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGG 402

Qy        376 TGTTCATGATGATGTTGACATTGTATTGCTGCAAGATTAATGTGGTTTGCAGATCTGGGG 435
              |||||||||||||||||||||| |||| ||||||||||||||||||| || ||||
Db        403 TGTTCATGATGATGTTGACATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTAT 462

Qy        436 GTA---------------TCTGGTAAACTGGAATAATTAAGTTAAAGGACAAACAT---G 477
              |||               |||||||||||||||| || |||| |||| ||||||||
Db        463 GTACTGCCATTTTTTGTTTCTGGTAAACTGGAAT-ATAAAGTGAAAGAACAAACATTTGA 521

Qy        478 AAGTTCCTTATGTATTTTTATAGACCTTTGTAAACAAAAGGGGACT--TGTTGAGAAGTC 535
              |  | | | |||||||||||||||| |||||||||| ||||| || |  ||||    |
Db        522 ACATACTTAATGTATTTTTATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGT 581

Qy        536 CTGTTTTTATACCTTGGAGCAAAACATTACAATGTAAAAATAAACAAAACCTGTTATTTT 595
              ||||  || |   |      |||  |   | |||||  |    | ||||    |  | ||
Db        582 CTGTCCTTTTTTATATCTTGAAAGAAAATCTATGTATGATGCTATAAAATAAATCCTATT 641

Qy        596 TTTTTTCTTAAGAAGGTAATCGGGAGACGTAGGCAATAAAATGTTTTCAGAGGTGCGAAA 655
              ||||||| | ||| |  |  ||| | |||||||| | || |||| | ||   | ||
Db        642 ATTTTTCTCAGGAATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGCGGGGCAGGGAT 701

Qy        656 AAGCTTTTGTTTTCTTAAACCATTCTTAGTCT--CTGCCACACTTGACACTCCGTCAAAG 713
              |  | | | ||| ||||  |||      | |        | | |||||| || |  ||||
Db        702 GGGAATGTTTGTTCATAAATAATTAGACATTTTCTATAGATATTTGACATTCTGCGAAAG 761

Qy        714 TGAGAAGCGAACTAAAGACCAACTGCGGTGGAAAATATTATGTTTATGTAATAAAAAAAA 773
              | |||| |||| |||||||||| |  ||  |||||||||| | |    ||| ||| |
Db        762 CAACAAGCAAACTGAAGACCAACTCCTATGAGAAATATTATGATGTTTATGTAATAAAGA 821


RESULT 6
US-10-342-887-156
; Sequence 156, Application US/10342887
; Publication No. US20040058340A1
; GENERAL INFORMATION:
;  APPLICANT: Dai, Hongyue
;  APPLICANT:  He, Yudong
;  APPLICANT:  Linsley, Peter S.
;  APPLICANT:  Mao, Mao
;  APPLICANT:  Roberts, Christopher J.
;  APPLICANT:  Van 't Veer, Laura Johanna
;  APPLICANT:  Van de Vijver, Marc J.
;  APPLICANT:  Bernards, Rene
;  TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
;  FILE REFERENCE: 9301-188-999
;  CURRENT APPLICATION NUMBER: US/10/342,887
;  CURRENT FILING DATE:  2003-01-15
;  PRIOR APPLICATION NUMBER: 60/298,918
;  PRIOR FILING DATE: 2001-06-18
;  PRIOR APPLICATION NUMBER: 60/380,710
;  PRIOR FILING DATE: 2002-05-14
;  PRIOR APPLICATION NUMBER: 10/172,118
;  PRIOR FILING DATE: 2002-06-14
;  NUMBER OF SEQ ID NOS: 2699
; SEQ ID NO 156
;   LENGTH: 876
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-342-887-156

  Query Match             41.1%;  Score 320.4;  DB 13;  Length 876;
  Best Local Similarity   69.0%;  Pred. No. 3.2e-81;
  Matches  520;  Conservative    0;  Mismatches  211;  Indels   23;  Gaps    5;

Qy         42 TTTCTCTTAGCCCGAACCACTTCCTTCTTCTGCTTGTTCCTCCCTAGGGCGCGGAAGCTG 101
              ||| | || |||  | |||||||||||| |  || |   |||||| || || | ||||  |
Db          8 TTTTTTTTTGCCTCAGCCACTTCCTTCCTTGGCCTCACCCTCCCCAGTGCACTGAAGAAG 67

Qy        102 AGTGCAGGGTTCAGACCCACGCGGCGAGCAGCTCTTCAGTGAAGAAGGAAGCAATCGGAG 161
                | |||| ||||||||||||||||                | |    || |   | |||
Db         68 GTAACCGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAAACCGCGCAGAG 127

Qy        162 GGTCAGCAATGAACGTGGAGCATGAGGTTAACCTCCTGGTGGAGGAAATTCATCGTCTGG 221
              | |||||||||| ||||| || |||||||||||| | ||||||||||||||||||| |||
Db        128 AGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAATTCATCGTTTGG 187

Qy        222 GTTCCAAAAATGCCGATGGGAAACTGAGTGTGAAGTTTGGGGTCCTCTTCCAAGACGACA 281
              |||| |||||||| ||||| ||  | || |||| |||||||||||||||  || || |
Db        188 GTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCGTGATGATA 247

Qy        282 GATGTGCCAATCTCTTTGAAGCGTTGGTGGGAACTCTGAAAGCCGCAAAACGAAGGAAGA 341
              |||||||| |||||||||| ||||| |||||||| ||||| ||||||||||||||||||
Db        248 AATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACGAAGGAAGA 307

Qy        342 TTGTTACGTACGCAGGAGAGCTGCTTTTGCAAGGTGTTCATGATGATGTTGACATTGTAT 401
              |||| || ||  |||||||||||||| |||||||||||||||||||||||||||||| |||
Db        308 TTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGATGTTGACATTATAT 367
```

```
Qy        402 TGCTGCAAGATTAATGTGGTTTGCAGATCTGGGGGTA----------TCTGGTAA 446
              |||||||||||||||||||| || ||||    |||              ||||||||
Db        368 TACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCATTTTTTGTTTCTGGTAA 427

Qy        447 ACTGGAATAATTAAGTTAAAGGACAAACAT---GAAGTTCCTTATGTATTTTTATAGACC 503
              |||||||| || |||| |||| ||||||||     | | | | ||||||||||||||| |
Db        428 ACTGGAAT-ATAAAGTGAAAGAACAAACATTTGAACATACTTAATGTATTTTTATAGAAC 486

Qy        504 TTTGTAAACAAAAGGGGA--CTTGTTGAGAAGTCCTGTTTTTATACCTTGGAGCAAAACA 561
              ||||||||| ||||| ||  | ||||     |  ||||  || |   |      ||| |
Db        487 TTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTTTTTTATATCTTGAAAGAA 546

Qy        562 TTACAATGTAAAAATAAACAAAACCTGTTATTTTTTTTTTCTTAAGAAGGTAATCGGGAG 621
                | |||||  |    | ||||   |  || |||||||  | |||  |  |  |||
Db        547 AATCTATGTATGATGCTATAAAATAAATCCTATTATTTTTCTCAGGAATCTGGTTAGGAA 606

Qy        622 ACGTAGGCAATAAAATGTTTTCAGAGGTGCGAAAAAGCTTTTGTTTTCTTAAACCATTCT 681
                | |||||||  | || ||||  | ||   |  |  | | | |||  ||||   |||
Db        607 TTGCAGGCAATGAGATTTTTTGCGGGGCAGGGATGGGAATGTTTGTTCATAAATAATTAG 666

Qy        682 TAGTCT--CTGCCACACTTGACACTCCGTCAAAGTGAGAAGCGAACTAAAGACCAACTGC 739
                |||      | | ||||||  || |  ||||  | ||||  |||| |||||||||| |
Db        667 ACATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGCAAACTGAAGACCAACTCC 726

Qy        740 GGTGGAAAATATTATGTTTATGTAATAAAAAAAA 773
                ||  ||||||||||  |  |    ||| ||| |
Db        727 TATGAGAAATATTATGATGTTTATGTAATAAAGA 760
```

RESULT 7
US-10-172-118-156
; Sequence 156, Application US/10172118
; Publication No. US20030224374A1
; GENERAL INFORMATION:
; APPLICANT: Dai, Hongyue
; APPLICANT: He, Yudong
; APPLICANT: Linsley, Peter
; APPLICANT: Mao, Mao
; APPLICANT: Roberts, Chris
; APPLICANT: Van 't Veer, Laura
; APPLICANT: Van de Vijver, Marc
; APPLICANT: Bernards, Rene
; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
; FILE REFERENCE: 9301-175-999
; CURRENT APPLICATION NUMBER: US/10/172,118
; CURRENT FILING DATE: 2002-06-14
; PRIOR APPLICATION NUMBER: 60/380,770
; PRIOR FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 2699
; SEQ ID NO 156
; LENGTH: 876
; TYPE: DNA
; ORGANISM: Homo sapiens
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: AF116682
; DATABASE ENTRY DATE: 2001-06-18
US-10-172-118-156

Query Match 41.1%; Score 320.4; DB 13; Length 876;
Best Local Similarity 69.0%; Pred. No. 3.2e-81;
Matches 520; Conservative 0; Mismatches 211; Indels 23; Gaps 5;

```
Qy         42 TTTCTCTTAGCCCGAACCACTTCCTTCTTCTGCTTGTTCCTCCCTAGGGCGCGGAAGCTG 101
              ||| | || |||  | ||||||||||| |  || |   ||||| || || | ||||  |
Db          8 TTTTTTTTTGCCTCAGCCACTTCCTTCCTTGGCCTCACCCTCCCCAGTGCACTGAAGAAG 67

Qy        102 AGTGCAGGGTTCAGACCCACGCGGCGAGCAGCTCTTCAGTGAAGAAGGAAGCAATCGGAG 161
                  | |||| |||||||||||||||                |  |    || |   | |||
Db         68 GTAACCGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAAACCGCGCAGAG 127

Qy        162 GGTCAGCAATGAACGTGGAGCATGAGGTTAACCTCCTGGTGGAGGAAATTCATCGTCTGG 221
                | |||||||||| ||||| || |||||||||||| | ||||||||||||||||||| |||
Db        128 AGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAATTCATCGTTTGG 187

Qy        222 GTTCCAAAAATGCCGATGGGAAACTGAGTGTGAAGTTTGGGGTCCTCTTCCAAGACGACA 281
              |||| |||||||| ||||| ||  | || ||||| ||||||||||||||||  || || |
Db        188 GTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCGTGATGATA 247

Qy        282 GATGTGCCAATCTCTTTGAAGCGTTGGTGGGAACTCTGAAAGCCGCAAAACGAAGGAAGA 341
              ||||||||  |||||||||| ||||| |||||||| ||||| ||||||||||||||||
Db        248 AATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACGAAGGAAGA 307

Qy        342 TTGTTACGTACGCAGGAGAGCTGCTTTTGCAAGGTGTTCATGATGATGTTGACATTGTAT 401
              |||| || ||  |||||||||||||| ||||||||||||||||||||||||||| |||
Db        308 TTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGATGTTGACATTATAT 367

Qy        402 TGCTGCAAGATTAATGTGGTTTGCAGATCTGGGGGTA----------TCTGGTAA 446
              | ||||||||||||||||||| || ||||    |||              ||||||||
Db        368 TACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCATTTTTTGTTTCTGGTAA 427

Qy        447 ACTGGAATAATTAAGTTAAAGGACAAACAT---GAAGTTCCTTATGTATTTTTATAGACC 503
              |||||||| || |||| |||| ||||||||     | | | | ||||||||||||||| |
Db        428 ACTGGAAT-ATAAAGTGAAAGAACAAACATTTGAACATACTTAATGTATTTTTATAGAAC 486

Qy        504 TTTGTAAACAAAAGGGGA--CTTGTTGAGAAGTCCTGTTTTTATACCTTGGAGCAAAACA 561
              ||||||||| ||||| ||  | ||||     |  ||||  || |   |      ||| |
Db        487 TTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTTTTTTATATCTTGAAAGAA 546

Qy        562 TTACAATGTAAAAATAAACAAAACCTGTTATTTTTTTTTTCTTAAGAAGGTAATCGGGAG 621
                | |||||  |    | ||||   |  || |||||||  | |||  |  |  |||
Db        547 AATCTATGTATGATGCTATAAAATAAATCCTATTATTTTTCTCAGGAATCTGGTTAGGAA 606

Qy        622 ACGTAGGCAATAAAATGTTTTCAGAGGTGCGAAAAAGCTTTTGTTTTCTTAAACCATTCT 681
                | |||||||  | || ||||  | ||   |  |  | | | |||  ||||   |||
Db        607 TTGCAGGCAATGAGATTTTTTGCGGGGCAGGGATGGGAATGTTTGTTCATAAATAATTAG 666

Qy        682 TAGTCT--CTGCCACACTTGACACTCCGTCAAAGTGAGAAGCGAACTAAAGACCAACTGC 739
                |||      | | ||||||  || |  ||||  | ||||  |||| |||||||||| |
Db        667 ACATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGCAAACTGAAGACCAACTCC 726

Qy        740 GGTGGAAAATATTATGTTTATGTAATAAAAAAAA 773
                ||  ||||||||||  |  |    ||| ||| |
Db        727 TATGAGAAATATTATGATGTTTATGTAATAAAGA 760
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RESULT 8
US-10-641-643-79
; Sequence 79, Application US/10641643
; Publication No. US20040077003A1
; GENERAL INFORMATION:
; APPLICANT: Cocks, Benjamin G.
; Susan G. Stuart
; Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL
; GENE EXPRESSION
; NUMBER OF SEQUENCES: 1508
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/641,643
; FILING DATE: 14-Aug-2003
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: <Unknown>
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:

```
;             NAME: Zeller, Karen J.
;             REGISTRATION NUMBER: 37,071
;             REFERENCE/DOCKET NUMBER: PA-0001 US
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (650) 855-0555
;             TELEFAX: (650) 845-4166
;   INFORMATION FOR SEQ ID NO: 79:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 786 base pairs
;             TYPE: nucleic acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;        IMMEDIATE SOURCE:
;             LIBRARY: THP1PLB01
;             CLONE: 012364
;        SEQUENCE DESCRIPTION: SEQ ID NO: 79 :
US-10-641-643-79

  Query Match             38.7%;  Score 302;  DB 17;  Length 786;
  Best Local Similarity   68.6%;  Pred. No. 5.9e-76;
  Matches  527;  Conservative    0;  Mismatches  215;  Indels   26;  Gaps    7;

Qy         31 CCACTGCAGCCTTTCTCTTAGCCCGAACCACTTCCTTCTTCTGCTTGTTCCTCCCTAGGG 90
Db          1 CCACAGCCGTCTTTCTCTTTGCCTCAGCCACTTCCTTCCTTGGCCTCACCCTCCCCAGTG 60

Qy         91 CGCGGAAGCTGAGTGCAGGGTTCAGACCCACGCGGCGAGCAGCTCTTCAGTGAAGAAGGA 150
Db         61 CACTGAAGAAGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAA 120

Qy        151 AGCAATCGGAGGGTCAGCAATGAACGTGGAGCATGAGGTTAACCTCCTGGTGGAGGAAAT 210
Db        121 ACCGCGCAGAGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAAT 180

Qy        211 TCATCGTCTGGGTTCCAAAAATGCCGATGGGAAACTGAG--TGTGAAGTTTGGGGTCCTC 268
Db        181 TCATCGTTTGGGTTCAAAAAATGCTGATGGAAAGTTAAGCCGTGAAATTTTGGGGTCCTC 240

Qy        269 TTCCAAGACGACAGATGTGCCAATCTCTTTGAAGCGTTGGTGGGAACTCTGAAAGCCGC- 327
Db        241 TTCCGTGATGATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCA 300

Qy        328 AAAACGAAGGAAGATTGTTACGTACGCAGGAGAGCTGCTTTTGCAAGGTGTTCATGATGA 387
Db        301 AAAACGAAGGAAGATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGA 360

Qy        388 TGTTGACATTGTATTGCTGCAAGATTAATGTGGTTTGCAGATCTGGGGGTA--------- 438
Db        361 TGTTGACATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCATTT 420

Qy        439 ------TCTGGTAAACTGGAATAATTAAGTTAAAGGACAAACAT---GAAGTTCCTTATG 489
Db        421 TTTGTTTCTGGTAAACTGGAAT-ATAAAGTGAAAGAACAAACATTTGAACATACTTAATG 479

Qy        490 TATTTTTATAGACCTTTGTAAACAAAAGGGGA--CTTGTTGAGAAGTCCTGTTTTTATAC 547
Db        480 TATTTTTATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTTTTTT 539

Qy        548 CTTGGAGCAAAACATTACAATGTAAAAATAAACAAAACCTGTTATTTTTTTTTTCTTAAG 607
Db        540 ATATCTTGAAAGAAAATCTATGTATGATGCTATAAAATAAATCCTATTATTTTTCTCAGG 599

Qy        608 AAGGTAATCGGGAGACGTAGGCAATAAAATGTTTTCAGAGGTGCGAAAAAGCTTTTGTTT 667
Db        600 AATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGCGGGGCAGGGATGGGAATGTTTGT 659

Qy        668 TCTTAAACCATTCTTAGTCT--CTGCCACACTTGACACTCCGTCAAAGTGAGAAGCGAAC 725
Db        660 TCATAAATAATTAGACATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGCAAAC 719

Qy        726 TAAAGACCAACTGCGGTGGAAAATATTATGTTTATGTAATAAAAAAAA 773
Db        720 TGAAGACCAACTCCTATGAGAAATATTATGATGTTTATGTAATAAAGA 767
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RESULT 9
US-09-925-300-545
; Sequence 545, Application US/09925300
; Patent No. US20020151681A1
; GENERAL INFORMATION:
;  APPLICANT: Craig Rosen,
;  APPLICANT:  Steve Ruben
;  TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
;  FILE REFERENCE: PA101
;  CURRENT APPLICATION NUMBER: US/09/925,300
;  CURRENT FILING DATE:  2001-08-10
;  PRIOR APPLICATION NUMBER: PCT/US00/05988
;  PRIOR FILING DATE: 2000-03-08
;  PRIOR APPLICATION NUMBER: 60/124,270
;  PRIOR FILING DATE: 1999-03-12
;  NUMBER OF SEQ ID NOS: 1890
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 545
;   LENGTH: 778
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc feature
;   LOCATION: (641)
;   OTHER INFORMATION: n equals a,t,g, or c
;   NAME/KEY: misc feature
;   LOCATION: (652)
;   OTHER INFORMATION: n equals a,t,g, or c
US-09-925-300-545

  Query Match             36.9%;  Score 288.2;  DB 9;  Length 778;
  Best Local Similarity   69.9%;  Pred. No. 5.5e-72;
  Matches  451;  Conservative    2;  Mismatches  167;  Indels   25;  Gaps    4;

Qy         16 CGTCCCCTCCCTTCTCCACTGCAGCCTTTCTCTTAGCCCGAACCACTTCCTTCTTCTGCT 75
Db         32 CCTGCTCCTCCTCCTCCACAGCCGTCTTTCTCTTTGCCTCAGCCACTTCCTTCCTTCGCC 91

Qy         76 TGTTCCTCCCTAGGGCGCGGAAGCTGAGTGCAGGGTTCAGACCCACGCGGCGAGCAGCTC 135
Db         92 TCACCCTCCCCAGTGCACTGAAGAAGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCT 151

Qy        136 TTCAGTGAAGAAGGAAGCAATCGGAGGGTCAGCAATGAACGTGGAGCATGAGGTTAACCT 195
Db        152 CCGGCGGGAAGGAAAACCGCGCAGAGAGGCAGCAATGAATGTGGATCACGAGGTTAACCT 211

Qy        196 CCTGGTGGAGGAAATTCATCGTCTGGGTTCCAAAAATGCCGATGGGAAACTGAGTGTGAA 255
Db        212 CTTAGTGGAGGAAATTCATCGTTTGGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAA 271

Qy        256 GTTTGGGGTCCTCTTCCAAGACGACAGATGTGCCAATCTCTTTGAAGCGTTGGTGGGAAC 315
Db        272 ATTTGGGGTCCTCTTCCGTGATGATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAAC 331

Qy        316 TCTGAAAGCCGCAAAACGAAGGAAGATTGTTACGTACGCAGGAGAGCTGCTTTTGCAAGG 375
Db        332 TCTTAAAGCTGCAAAACGAAGGAAGATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGG 391

Qy        376 TGTTCATGATGATGTTGACATTGTATTGCTGCAAGATTAATGTGGTTTGCAGATCTGGGG 435
Db        392 TGTTCATGATGATGTTGACATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTAT 451

Qy        436 GTA---------------TCTGGTAAACTGGAATAATTAAGTTAAAGGACAAACAT---G 477
Db        452 GTACTGCCATTTTTTGTTTCTGGTAAACTGGAAT-ATAAAGTGAAAGAACAAACATTTGA 510

Qy        478 AAGTTCCTTATGTATTTTTATAGACCTTTGTAAACAAAAGGGGA------CTTGTTGAGA 531
Db        511 ACATACTTAATGTATTTTTATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGT 570

Qy        532 AGTCCTGTTTTTATACCTTGGAGCAAAACATTACAATGTAAAAATAAACAAAACCTGTTA 591
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Db        571 CTGTCCTTTTTTATATCTTGAAAGAAAATCTATGTATGATGCTATAAAATAAATCCTATT 630

Qy        592 TTTTTTTTTTCTTAAGAAGGTAATCGGGAGACGTAGGCAATAAAA 636
              |||| |    |: |   | ||   | ||      ||: |||
Db        631 ATTTTCTMAGNATMTGGTTGANATTCTGCGAAAGCAACAWGCAAA 675


RESULT 10
US-09-969-034-750
; Sequence 750, Application US/09969034
; Publication No. US20040110668A1
; GENERAL INFORMATION:
;  APPLICANT: Burgess, Christopher C.
;  APPLICANT:  Astle, Jon H.
;  APPLICANT:  Carroll, Eddie III
;  APPLICANT:  Catino, Theodore J.
;  APPLICANT:  Dwivedi, Poornima
;  APPLICANT:  Molino, Gary A.
;  APPLICANT:  Thiagalingam, Arunthathi
;  APPLICANT:  Lewis, Marcia E.
;  TITLE OF INVENTION: Nucleic Acid Sequences Differentially
;  TITLE OF INVENTION:  Expressed in Cancer Tissue
;  FILE REFERENCE: 1657/1032
;  CURRENT APPLICATION NUMBER: US/09/969,034
;  CURRENT FILING DATE:  2001-10-02
;  PRIOR APPLICATION NUMBER: 60/237,271
;  PRIOR FILING DATE: 2000-02-10
;  NUMBER OF SEQ ID NOS: 4494
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 750
;   LENGTH: 594
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: 405, 447, 472, 485, 497, 513, 534, 537, 541, 543, 563, 572
;   OTHER INFORMATION: n = A,T,C or G
US-09-969-034-750

  Query Match             33.7%;  Score 263;  DB 12;  Length 594;
  Best Local Similarity   76.0%;  Pred. No. 8.1e-65;
  Matches  323;  Conservative    0;  Mismatches  102;  Indels    0;  Gaps    0;

Qy         16 CGTCCCCTCCCTTCTCCACTGCAGCCTTTCTCTTAGCCCGAACCACTTCCTTCTTCTGCT 75
              | | | |  ||| ||||||  || | |||||||||  |||  | ||||||||||| |  ||
Db         45 CCTGCTCCTCCTCCTCCACAGCCGTCTTTCTCTTTGCCTCAGCCACTTCCTTCCTTGGCC 104

Qy         76 TGTTCCTCCCTAGGGCGCGGAAGCTGAGTGCAGGGTTCAGACCCACGCGGCGAGCAGCTC 135
              |   |||||| || || | ||||  |    | |||| ||||||||||||||||
Db        105 TCACCCTCCCCAGTGCACTGAAGAAGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCT 164

Qy        136 TTCAGTGAAGAAGGAAGCAATCGGAGGGTCAGCAATGAACGTGGAGCATGAGGTTAACCT 195
                 | |     || |   | ||| | |||||||||| ||||| || ||||||||||
Db        165 CCGGCGGGAAGGAAAACCGCGCAGAGAGGCAGCAATGAATGTGGATCACGAGGTTAACCT 224

Qy        196 CCTGGTGGAGGAAATTCATCGTCTGGGTTCCAAAAATGCCGATGGGAAACTGAGTGTGAA 255
              | | ||||||||||||||||||| ||||||| |||||||| ||||| ||  | || |||||
Db        225 CTTAGTGGAGGAAATTCATCGTTTGGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAA 284

Qy        256 GTTTGGGGTCCTCTTCCAAGACGACAGATGTGCCAATCTCTTTGAAGCGTTGGTGGGAAC 315
                 |||||||||||||||   || || | |||||||||  |||||||||| ||||| |||||
Db        285 ATTTGGGGTCCTCTTCCGTGATGATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAAC 344

Qy        316 TCTGAAAGCCGCAAAACGAAGGAAGATTGTTACGTACGCAGGAGAGCTGCTTTTGCAAGG 375
              |||  |||||  |||||||||||||||||||||  || ||   |||||||||||||| | |||||
Db        345 TCTTAAAGCTGCAAAACGAAGGAAGATTGTAACATATCCAGGAGAGCTGCTTCTACAAGG 404

Qy        376 TGTTCATGATGATGTTGACATTGTATTGCTGCAAGATTAATGTGGTTTGCAGATCTGGGG 435
              |||||||||||||||||||| |||| ||||||||  ||||| ||  ||  ||  ||||
Db        405 NGTTCATGATGATGTTGACATTATATTACTGCAAGAATAATGNGGGTTACATATCTTTAT 464

Qy        436 GTATC 440
              |||| |
Db        465 GTACC 469


RESULT 11
US-09-969-034-748
; Sequence 748, Application US/09969034
; Publication No. US20040110668A1
; GENERAL INFORMATION:
;  APPLICANT: Burgess, Christopher C.
;  APPLICANT:  Astle, Jon H.
;  APPLICANT:  Carroll, Eddie III
;  APPLICANT:  Catino, Theodore J.
;  APPLICANT:  Dwivedi, Poornima
;  APPLICANT:  Molino, Gary A.
;  APPLICANT:  Thiagalingam, Arunthathi
;  APPLICANT:  Lewis, Marcia E.
;  TITLE OF INVENTION: Nucleic Acid Sequences Differentially
;  TITLE OF INVENTION:  Expressed in Cancer Tissue
;  FILE REFERENCE: 1657/1032
;  CURRENT APPLICATION NUMBER: US/09/969,034
;  CURRENT FILING DATE:  2001-10-02
;  PRIOR APPLICATION NUMBER: 60/237,271
;  PRIOR FILING DATE: 2000-02-10
;  NUMBER OF SEQ ID NOS: 4494
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 748
;   LENGTH: 717
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: 452, 481, 482, 505, 521, 536, 540, 594, 599, 607, 635, 641,
;   LOCATION: 643, 657, 664, 673, 691, 695, 700
;   OTHER INFORMATION: n = A,T,C or G
US-09-969-034-748

  Query Match             32.1%;  Score 250.4;  DB 12;  Length 717;
  Best Local Similarity   75.6%;  Pred. No. 3.8e-61;
  Matches  323;  Conservative    0;  Mismatches  102;  Indels    2;  Gaps    1;

Qy         16 CGTCCCCTCCCTTCTCCACTGCAGCCTTTCTCTTAGCCCGAACCACTTCCTTCTTCTGCT 75
              | | | |  ||| ||||||  || | |||||||||  |||  | ||||||||||| |  ||
Db         48 CCTGCTCCTCCTCCTCCACAGCCGTCTTTCTCTTTGCCTCAGCCACTTCCTTCCTTGGCC 107

Qy         76 TGTTCCTCCCTAGGGCGCGGAAGCTGAGTGCAGGGTTCAGACCCACGCGGCGAGCAGCTC 135
              |   |||||| || || | ||||  |    | |||| ||||||||||||||||
Db        108 TCACCCTCCCCAGTGCACTGAAGAAGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCT 167

Qy        136 TTCAGTGAAGAAGGAAGCAATCGGAGGGTCAGCAATGAACGTGGAGCATGAGGTTAACCT 195
                 | |     || |   | ||| | |||||||||| ||||| || ||||||||||
Db        168 CCGGCGGGAAGGAAAACCGCGCAGAGAGGCAGCAATGAATGTGGATCACGAGGTTAACCT 227

Qy        196 CCTGGTGGAGGAAATTCATCGTCTGGGTTCCAAAAATGCCGATGGGAAACTGAGTGTGAA 255
              | | ||||||||||||||||||| ||||||| |||||||| ||||| ||  | || |||||
Db        228 CTTAGTGGAGGAAATTCATCGTTTGGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAA 287

Qy        256 GTTTGGGGTCCTCTTCCAAGACGACAGATGTGCCAATCTCTTTGAAGCGTTGGTGGGAAC 315
                 |||||||||||||||   || || | |||||||||  |||||||||| ||||| |||||
Db        288 ATTTGGGGTCCTCTTCCGTGATGATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAAC 347

Qy        316 TCTGAAAGCCGCAAAACGAAGGAAGATTGTTACGTACGCAGGAGAGCTGCTTTTGCAAGG 375
              |||  |||||  |||||||||||||||||||||  || ||   |||||||||||||| | |||||
Db        348 TCTTAAAGCTGCAAAACGAAGGAAGATTGTAACATATCCAGGAGAGCTGCTTCTACAAGG 407

Qy        376 TGTTCATGATGATGTTGACATTGTATTGCTGCAA--GATTAATGTGGTTTGCAGATCTGG 433
              |||||||||||||||||||| |||| ||||||   || |||| || || || ||||
Db        408 TGTTCATGATGATGTTGACATTATATTACTGCAAAGAATAAATGNGGGTTACATATCTTT 467

Qy        434 GGGTATC 440
                |||| |
Db        468 ATGTACC 474
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RESULT 12
US-10-085-783A-56189
; Sequence 56189, Application US/10085783A
; Publication No. US20040037841A1
; GENERAL INFORMATION:
;  APPLICANT: ChondroGene Inc.
;  APPLICANT:  Liew, C.C.
;  TITLE OF INVENTION: Compositions and Methods Relatiing to Osteoarthritis
;  FILE REFERENCE: 4231/2002
;  CURRENT APPLICATION NUMBER: US/10/085,783A
;  CURRENT FILING DATE:  2002-02-28
;  PRIOR APPLICATION NUMBER: US 60/305,340
;  PRIOR FILING DATE: 2001-07-13
;  PRIOR APPLICATION NUMBER: US 60/275,017
;  PRIOR FILING DATE: 2001-03-12
;  PRIOR APPLICATION NUMBER: US 60/271,955
;  PRIOR FILING DATE: 2001-02-28
;  NUMBER OF SEQ ID NOS: 58994
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 56189
;   LENGTH: 483
;   TYPE: DNA
;   ORGANISM: Human
US-10-085-783A-56189

  Query Match             31.0%;  Score 241.6;  DB 13;  Length 483;
  Best Local Similarity   77.5%;  Pred. No. 1e-58;
  Matches  338;  Conservative    0;  Mismatches   79;  Indels   19;  Gaps    3;

Qy        106 CAGGGTTCAGACCCACGCGGCGAGCAGCTCTTCAGTGAAGAAGGAAGCAATCGGAGGGTC 165
              | |||| |||||||||||||||                | |      || |   | ||| | |
Db         17 CTGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAAACCGCGCAGAGAGGC 76

Qy        166 AGCAATGAACGTGGAGCATGAGGTTAACCTCCTGGTGGAGGAAATTCATCGTCTGGGTTC 225
              ||||||||| ||||| || |||||||||||| | |||||||||||||||||| |||||||
Db         77 AGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAATTCATCGTTTGGGTTC 136

Qy        226 CAAAAATGCCGATGGGAAACTGAGTGTGAAGTTTGGGGTCCTCTTCCAAGACGACAGATG 285
              |||||||| ||||| ||   | || ||||| ||||||||||||||||   || || | |||
Db        137 AAAAAATGCTGATGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCGTGATGATAAATG 196

Qy        286 TGCCAATCTCTTTGAAGCGTTGGTGGGAACTCTGAAAGCCGCAAAACGAAGGAAGATTGT 345
              |||||| |||||||||| ||||| |||||||| ||||| ||||||||||||||||||||
Db        197 TGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACGAAGGAAGATTGT 256

Qy        346 TACGTACGCAGGAGAGCTGCTTTTGCAAGGTGTTCATGATGATGTTGACATTGTATTGCT 405
              || ||  |||||||||||||| ||||||||||||||||||||||||||| |||| ||
Db        257 AACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGATGTTGACATTATATTACT 316

Qy        406 GCAAGATTAATGTGGTTTGCAGATCTGGGGGTA----------------TCTGGTAAACTG 450
              |||||||||||||||| || ||||    |||                ||||||||||||
Db        317 GCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCATTTTTTGTTTCTGGTAAACTG 376

Qy        451 GAATAATTAAGTTAAAGGACAAACAT---GAAGTTCCTTATGTATTTTTATAGACCTTTG 507
              |||| || |||| |||| ||||||||    | | | | ||||||||||||||| |||||
Db        377 GAAT-ATAAAGTGAAAGAACAAACATTTGAACATACTTAATGTATTTTTATAGAACTTTG 435

Qy        508 TAAACAAAAGGGGACT 523
              ||||| ||||| || |
Db        436 TAAACGAAAGGAGATT 451


RESULT 13
US-10-242-535A-56189
; Sequence 56189, Application US/10242535A
; Publication No. US20040013663A1
; GENERAL INFORMATION:
;  APPLICANT: ChondroGene Inc.
;  APPLICANT:  Liew, C.C.
;  TITLE OF INVENTION: Compositions and Methods Relatiing to Osteoarthritis
;  FILE REFERENCE: 4231/2005
;  CURRENT APPLICATION NUMBER: US/10/242,535A
;  CURRENT FILING DATE:  2002-09-12
;  PRIOR APPLICATION NUMBER: US 10/085,783
;  PRIOR FILING DATE: 2002-02-28
;  PRIOR APPLICATION NUMBER: US 60/305,340
;  PRIOR FILING DATE: 2001-07-13
;  PRIOR APPLICATION NUMBER: US 60/275,017
;  PRIOR FILING DATE: 2001-03-12
;  PRIOR APPLICATION NUMBER: US 60/271,955
;  PRIOR FILING DATE: 2001-02-28
;  NUMBER OF SEQ ID NOS: 58994
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 56189
;   LENGTH: 483
;   TYPE: DNA
;   ORGANISM: Human
US-10-242-535A-56189

  Query Match             31.0%;  Score 241.6;  DB 16;  Length 483;
  Best Local Similarity   77.5%;  Pred. No. 1e-58;
  Matches  338;  Conservative    0;  Mismatches   79;  Indels   19;  Gaps    3;

Qy        106 CAGGGTTCAGACCCACGCGGCGAGCAGCTCTTCAGTGAAGAAGGAAGCAATCGGAGGGTC 165
              | |||| |||||||||||||||                | |      || |   | ||| | |
Db         17 CTGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAAACCGCGCAGAGAGGC 76

Qy        166 AGCAATGAACGTGGAGCATGAGGTTAACCTCCTGGTGGAGGAAATTCATCGTCTGGGTTC 225
              ||||||||| ||||| || |||||||||||| | |||||||||||||||||| |||||||
Db         77 AGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAATTCATCGTTTGGGTTC 136

Qy        226 CAAAAATGCCGATGGGAAACTGAGTGTGAAGTTTGGGGTCCTCTTCCAAGACGACAGATG 285
              |||||||| ||||| ||   | || ||||| ||||||||||||||||   || || | |||
Db        137 AAAAAATGCTGATGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCGTGATGATAAATG 196

Qy        286 TGCCAATCTCTTTGAAGCGTTGGTGGGAACTCTGAAAGCCGCAAAACGAAGGAAGATTGT 345
              |||||| |||||||||| ||||| |||||||| ||||| ||||||||||||||||||||
Db        197 TGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACGAAGGAAGATTGT 256

Qy        346 TACGTACGCAGGAGAGCTGCTTTTGCAAGGTGTTCATGATGATGTTGACATTGTATTGCT 405
              || ||  |||||||||||||| ||||||||||||||||||||||||||| |||| ||
Db        257 AACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGATGTTGACATTATATTACT 316

Qy        406 GCAAGATTAATGTGGTTTGCAGATCTGGGGGTA----------------TCTGGTAAACTG 450
              |||||||||||||||| || ||||    |||                ||||||||||||
Db        317 GCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCATTTTTTGTTTCTGGTAAACTG 376

Qy        451 GAATAATTAAGTTAAAGGACAAACAT---GAAGTTCCTTATGTATTTTTATAGACCTTTG 507
              |||| || |||| |||| ||||||||    | | | | ||||||||||||||| |||||
Db        377 GAAT-ATAAAGTGAAAGAACAAACATTTGAACATACTTAATGTATTTTTATAGAACTTTG 435

Qy        508 TAAACAAAAGGGGACT 523
              ||||| ||||| || |
Db        436 TAAACGAAAGGAGATT 451


RESULT 14
US-10-085-783A-21733
; Sequence 21733, Application US/10085783A
; Publication No. US20040037841A1
; GENERAL INFORMATION:
;  APPLICANT: ChondroGene Inc.
;  APPLICANT:  Liew, C.C.
;  TITLE OF INVENTION: Compositions and Methods Relatiing to Osteoarthritis
;  FILE REFERENCE: 4231/2002
;  CURRENT APPLICATION NUMBER: US/10/085,783A
;  CURRENT FILING DATE:  2002-02-28
;  PRIOR APPLICATION NUMBER: US 60/305,340
;  PRIOR FILING DATE: 2001-07-13
;  PRIOR APPLICATION NUMBER: US 60/275,017
;  PRIOR FILING DATE: 2001-03-12
;  PRIOR APPLICATION NUMBER: US 60/271,955
;  PRIOR FILING DATE: 2001-02-28
;  NUMBER OF SEQ ID NOS: 58994
;  SOFTWARE: PatentIn version 3.2
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; SEQ ID NO 21733
;   LENGTH: 400
;   TYPE: DNA
;   ORGANISM: Human
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (23)..(23)
;   OTHER INFORMATION: n is a, c, g, or t
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (48)..(48)
;   OTHER INFORMATION: n is a, c, g, or t
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (328)..(328)
;   OTHER INFORMATION: n is a, c, g, or t
US-10-085-783A-21733

  Query Match             28.0%;  Score 218.2;  DB 13;  Length 400;
  Best Local Similarity   79.8%;  Pred. No. 4.8e-52;
  Matches  256;  Conservative    0;  Mismatches   65;  Indels    0;  Gaps    0;

Qy        118 CCACGCGGCGAGCAGCTCTTCAGTGAAGAAGGAAGCAATCGGAGGGTCAGCAATGAACGT 177
              ||||||||||            | |      || |    | ||| | ||||||||||  ||
Db         25 CCACGCGGCGCCAGTTCTCCGGCNGGAAGGAAAACCGCGCAGAGAGGCAGCAATGAATGT 84

Qy        178 GGAGCATGAGGTTAACCTCCTGGTGGAGGAAATTCATCGTCTGGGTTCCAAAAATGCCGA 237
              ||| || ||||||||||| | |||||||||||||||||| |||||||  |||||||| ||
Db         85 GGATCACGAGGTTAACCTCTTAGTGGAGGAAATTCATCGTTTGGGTTCAAAAAATGCTGA 144

Qy        238 TGGGAAACTGAGTGTGAAGTTTGGGGTCCTCTTCCAAGACGACAGATGTGCCAATCTCTT 297
              ||| ||  | || ||||| ||||||||||||||||  || || | |||||||| |||||
Db        145 TGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCGTGATGATAAATGTGCCAACCTCTT 204

Qy        298 TGAAGCGTTGGTGGGAACTCTGAAAGCCGCAAAACGAAGGAAGATTGTTACGTACGCAGG 357
              |||||| ||||| |||||||| ||||| ||||||||||||||||||  || ||  ||||
Db        205 TGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACGAAGGAAGATTGTAACATATCCAGG 264

Qy        358 AGAGCTGCTTTTGCAAGGTGTTCATGATGATGTTGACATTGTATTGCTGCAAGATTAATG 417
              |||||||||| |||||||||||||||||||||||||||||| |||| ||||||||||||||
Db        265 AGAGCTGCTTCTGCAAGGTGTTCATGATGATGTTGACATTATATTACTGCAAGATTAATG 324

Qy        418 TGGTTTGCAGATCTGGGGGTA 438
              ||| || || ||||    |||
Db        325 TGGNTTACATATCTTTATGTA 345


RESULT 15
US-10-242-535A-21733
; Sequence 21733, Application US/10242535A
; Publication No. US20040013663A1
; GENERAL INFORMATION:
;  APPLICANT: ChondroGene Inc.
;  APPLICANT:  Liew, C.C.
;  TITLE OF INVENTION: Compositions and Methods Relatiing to Osteoarthritis
;  FILE REFERENCE: 4231/2005
;  CURRENT APPLICATION NUMBER: US/10/242,535A
;  CURRENT FILING DATE:  2002-09-12
;  PRIOR APPLICATION NUMBER: US 10/085,783
;  PRIOR FILING DATE: 2002-02-28
;  PRIOR APPLICATION NUMBER: US 60/305,340
;  PRIOR FILING DATE: 2001-07-13
;  PRIOR APPLICATION NUMBER: US 60/275,017
;  PRIOR FILING DATE: 2001-03-12
;  PRIOR APPLICATION NUMBER: US 60/271,955
;  PRIOR FILING DATE: 2001-02-28
;  NUMBER OF SEQ ID NOS: 58994
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 21733
;   LENGTH: 400
;   TYPE: DNA
;   ORGANISM: Human
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (23)..(23)
;   OTHER INFORMATION: n is a, c, g, or t
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (48)..(48)
;   OTHER INFORMATION: n is a, c, g, or t
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (328)..(328)
;   OTHER INFORMATION: n is a, c, g, or t
US-10-242-535A-21733

  Query Match             28.0%;  Score 218.2;  DB 16;  Length 400;
  Best Local Similarity   79.8%;  Pred. No. 4.8e-52;
  Matches  256;  Conservative    0;  Mismatches   65;  Indels    0;  Gaps    0;

Qy        118 CCACGCGGCGAGCAGCTCTTCAGTGAAGAAGGAAGCAATCGGAGGGTCAGCAATGAACGT 177
              ||||||||||            | |      || |    | ||| | ||||||||||  ||
Db         25 CCACGCGGCGCCAGTTCTCCGGCNGGAAGGAAAACCGCGCAGAGAGGCAGCAATGAATGT 84

Qy        178 GGAGCATGAGGTTAACCTCCTGGTGGAGGAAATTCATCGTCTGGGTTCCAAAAATGCCGA 237
              ||| || ||||||||||| | |||||||||||||||||| |||||||  |||||||| ||
Db         85 GGATCACGAGGTTAACCTCTTAGTGGAGGAAATTCATCGTTTGGGTTCAAAAAATGCTGA 144

Qy        238 TGGGAAACTGAGTGTGAAGTTTGGGGTCCTCTTCCAAGACGACAGATGTGCCAATCTCTT 297
              ||| ||  | || ||||| ||||||||||||||||  || || | |||||||| |||||
Db        145 TGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCGTGATGATAAATGTGCCAACCTCTT 204

Qy        298 TGAAGCGTTGGTGGGAACTCTGAAAGCCGCAAAACGAAGGAAGATTGTTACGTACGCAGG 357
              |||||| ||||| |||||||| ||||| ||||||||||||||||||  || ||  ||||
Db        205 TGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACGAAGGAAGATTGTAACATATCCAGG 264

Qy        358 AGAGCTGCTTTTGCAAGGTGTTCATGATGATGTTGACATTGTATTGCTGCAAGATTAATG 417
              |||||||||| |||||||||||||||||||||||||||||| |||| ||||||||||||||
Db        265 AGAGCTGCTTCTGCAAGGTGTTCATGATGATGTTGACATTATATTACTGCAAGATTAATG 324

Qy        418 TGGTTTGCAGATCTGGGGGTA 438
              ||| || || ||||    |||
Db        325 TGGNTTACATATCTTTATGTA 345


Search completed: August 21, 2004, 18:32:50
Job time : 559.105 secs
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GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: August 21, 2004, 11:55:37 ; Search time 74.8607 Seconds
(without alignments)
5782.230 Million cell updates/sec

Title: US-09-648-310-1
Perfect score: 780
Sequence: 1 ggcacgagctctcctcgtcc.....gtaataaaaaaaaatcatgt 780

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*
1: /cgn2_6/ptodata/2/ina/5A_COMB.seq:*
2: /cgn2_6/ptodata/2/ina/5B_COMB.seq:*
3: /cgn2_6/ptodata/2/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/2/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/2/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
	1	754.8	96.8	800	4	US-09-644-460-26	Sequence 26, Appl
	2	302	38.7	786	4	US-09-023-655-79	Sequence 79, Appl
	3	157	20.1	177	2	US-09-032-684-20	Sequence 20, Appl
	4	157	20.1	177	4	US-09-644-460-20	Sequence 20, Appl
	5	49.4	6.3	219	4	US-09-621-976-17956	Sequence 17956, A
c	6	44	5.6	7218	1	US-08-232-463-14	Sequence 14, Appl
	7	42.6	5.5	832	4	US-09-621-976-2813	Sequence 2813, Ap
	8	40	5.1	611	3	US-09-385-982-376	Sequence 376, App
	9	39.6	5.1	430	4	US-09-621-976-16656	Sequence 16656, A
	10	38	4.9	720	1	US-08-117-083-23	Sequence 23, Appl
	11	38	4.9	1500	1	US-08-117-083-67	Sequence 67, Appl
c	12	37	4.7	1818	4	US-09-357-206A-6	Sequence 6, Appli
c	13	37	4.7	5253	4	US-09-357-206A-16	Sequence 16, Appl
c	14	37	4.7	5483	4	US-09-357-206A-17	Sequence 17, Appl
c	15	37	4.7	5586	4	US-09-357-206A-19	Sequence 19, Appl
c	16	37	4.7	5816	4	US-09-357-206A-21	Sequence 21, Appl
c	17	37	4.7	6095	4	US-09-357-206A-18	Sequence 18, Appl
c	18	37	4.7	6325	4	US-09-357-206A-20	Sequence 20, Appl
c	19	37	4.7	6428	4	US-09-357-206A-22	Sequence 22, Appl
c	20	37	4.7	7400	1	US-08-261-663A-1	Sequence 1, Appli
c	21	37	4.7	7400	5	PCT-US95-07754A-1	Sequence 1, Appli
c	22	37	4.7	10881	4	US-09-357-206A-9	Sequence 9, Appli
c	23	37	4.7	12286	4	US-09-357-206A-1	Sequence 1, Appli
c	24	37	4.7	12286	4	US-09-813-742A-1	Sequence 1, Appli
c	25	37	4.7	640681	4	US-09-790-988-1	Sequence 1, Appli
c	26	36.8	4.7	3588	1	US-08-197-792-32	Sequence 32, Appl
c	27	36.8	4.7	3588	1	US-08-459-850-32	Sequence 32, Appl
c	28	36.8	4.7	3588	1	US-08-459-214-32	Sequence 32, Appl
	29	36.4	4.7	255	4	US-09-540-236-28	GENERAL INFORMATI
c	30	36.4	4.7	2170	4	US-09-807-258-9	Sequence 9, Appli
	31	35.6	4.6	3722	4	US-10-164-595-9	Sequence 9, Appli
	32	35.6	4.6	3862	4	US-10-164-595-5	Sequence 5, Appli
	33	35.6	4.6	3937	4	US-10-164-595-7	Sequence 7, Appli
	34	35.6	4.6	3985	4	US-10-164-595-3	Sequence 3, Appli
c	35	35.4	4.5	907	1	US-08-664-596B-23	Sequence 23, Appl
c	36	35.4	4.5	907	2	US-08-739-775-1	Sequence 1, Appli
	37	35	4.5	4880	4	US-09-402-929-5	Sequence 5, Appli
c	38	35	4.5	168575	4	US-09-426-290-1	Sequence 1, Appli
c	39	34.8	4.5	832	4	US-09-621-976-2813	Sequence 2813, Ap
	40	34.8	4.5	640681	4	US-09-790-988-1	Sequence 1, Appli
	41	34.6	4.4	482	4	US-09-621-976-16794	Sequence 16794, A
	42	34.6	4.4	2850	4	US-09-549-848B-93	Sequence 93, Appl
c	43	34.4	4.4	4291	2	US-08-417-210A-81	Sequence 81, Appl
c	44	34.4	4.4	4291	4	US-09-136-159A-81	Sequence 81, Appl
c	45	34.4	4.4	5852	1	US-07-867-106-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-09-644-460-26
; Sequence 26, Application US/09644460
; Patent No. 6657053
; GENERAL INFORMATION:
; APPLICANT: Fisher, Paul B.
; TITLE OF INVENTION: Reciprocal Subtraction Differential
; TITLE OF INVENTION: Display
; FILE REFERENCE: 34587-C-PCT-USA
; CURRENT APPLICATION NUMBER: US/09/644,460
; CURRENT FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: PCT/US99/04323
; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: US 09/197,889
; PRIOR FILING DATE: 1998-11-23
; PRIOR APPLICATION NUMBER: US 09/185,115
; PRIOR FILING DATE: 1998-11-03
; PRIOR APPLICATION NUMBER: US 09/032,684
; PRIOR FILING DATE: 1998-02-27
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 800
; TYPE: DNA
; ORGANISM: homo sapiens
US-09-644-460-26

Query Match 96.8%; Score 754.8; DB 4; Length 800;
Best Local Similarity 99.5%; Pred. No. 1.3e-213;
Matches 778; Conservative 0; Mismatches 2; Indels 2; Gaps 2;

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Qy          1 GGCACGAGCTCTCCTCGTCCCCTCCCTTCTCCACTGCAGCCTTTCTCTTAGCCCGAACCA 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 GGCACGAGCTCTCCTCGTCCCCTCCCTTCTCCACTGCAGCCTTTCTCTTAGCCCGAACCA 60

Qy         61 CTTCCTTCTTCTGCTTGTTCCTCCCTAGGGCGCGGAAGCTGAGTGCAGGGTTCAGACCCA 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 CTTCCTTCTTCTGCTTGTTCCTCCCTAGGGCGCGGAAGCTGAGTGCAGGGTTCAGACCCA 120

Qy        121 CGCGGCGAGCAGCTCTTCAGTGAAGAAGGAAGCAATCGGAGGGTCAGCAATGAACGTGGA 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 CGCGGCGAGCAGCTCTTCAGTGAAGAAGGAAGCAATCGGAGGGTCAGCAATGAACGTGGA 180

Qy        181 GCATGAGGTTAACCTCCTGGTGGAGGAAATTCATCGTCTGGGTTCCAAAAATGCCGATGG 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 GCATGAGGTTAACCTCCTGGTGGAGGAAATTCATCGTCTGGGTTCCAAAAATGCCGATGG 240

Qy        241 GAAACTGAGTGTGAAGTTTGGGGTCCTCTTCCAAGACGACAGATGTGCCAATCTCTTTG- 299
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||| |
Db        241 GAAACTGAGTGTGAAGTTTGGGGTCCTCTTCCAAGACGACAGATGTGCCAATCTCTTTGA 300
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Qy        300 AAGCGTTGGTGGGAACTCTGAAAG-CCGCAAAACGAAGGAAGATTGTTACGTACGCAGGA 358
Db        301 AACCGTTGGTGGGAACTCTGAAAGCCCGCAAAACGAAGGAAGATTGTTACGTACGCAGAA 360

Qy        359 GAGCTGCTTTTGCAAGGTGTTCATGATGATGTTGACATTGTATTGCTGCAAGATTAATGT 418
Db        361 GAGCTGCTTTTGCAAGGTGTTCATGATGATGTTGACATTGTATTGCTGCAAGATTAATGT 420

Qy        419 GGTTTGCAGATCTGGGGGTATCTGGTAAACTGGAATAATTAAGTTAAAGGACAAACATGA 478
Db        421 GGTTTGCAGATCTGGGGGTATCTGGTAAACTGGAATAATTAAGTTAAAGGACAAACATGA 480

Qy        479 AGTTCCTTATGTATTTTTATAGACCTTTGTAAACAAAAGGGGACTTGTTGAGAAGTCCTG 538
Db        481 AGTTCCTTATGTATTTTTATAGACCTTTGTAAACAAAAGGGGACTTGTTGAGAAGTCCTG 540

Qy        539 TTTTTATACCTTGGAGCAAAACATTACAATGTAAAAATAAACAAAACCTGTTATTTTTTT 598
Db        541 TTTTTATACCTTGGAGCAAAACATTACAATGTAAAAATAAACAAAACCTGTTATTTTTTT 600

Qy        599 TTTCTTAAGAAGGTAATCGGGAGACGTAGGCAATAAAATGTTTTCAGAGGTGCGAAAAAG 658
Db        601 TTTCTTAAGAAGGTAATCGGGAGACGTAGGCAATAAAATGTTTTCAGAGGTGCGAAAAAG 660

Qy        659 CTTTTGTTTTCTTAAACCATTCTTAGTCTCTGCCACACTTGACACTCCGTCAAAGTGAGA 718
Db        661 CTTTTGTTTTCTTAAACCATTCTTAGTCTCTGCCACACTTGACACTCCGTCAAAGTGAGA 720

Qy        719 AGCGAACTAAAGACCAACTGCGGTGGAAAATATTATGTTTATGTAATAAAAAAAAATCAT 778
Db        721 AGCGAACTAAAGACCAACTGCGGTGGAAAATATTATGTTTATGTAATAAAAAAAATCAT 780

Qy        779 GT 780
Db        781 GT 782
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RESULT 2
US-09-023-655-79
; Sequence 79, Application US/09023655
; Patent No. 6607879
; GENERAL INFORMATION:
; APPLICANT: Cocks, Benjamin G.
; APPLICANT: Susan G. Stuart
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
; TITLE OF INVENTION: EXPRESSION
; NUMBER OF SEQUENCES: 1508
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,655
; FILING DATE: HEREWITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0001 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 79:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 786 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: THP1PLB01
; CLONE: 012364
US-09-023-655-79

Query Match 38.7%; Score 302; DB 4; Length 786;
Best Local Similarity 68.6%; Pred. No. 1.4e-79;
Matches 527; Conservative 0; Mismatches 215; Indels 26; Gaps 7;

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Qy         31 CCACTGCAGCCTTTCTCTTAGCCCGAACCACTTCCTTCTTCTGCTTGTTCCTCCCTAGGG 90
Db          1 CCACAGCCGTCTTTCTCTTTGCCTCAGCCACTTCCTTCCTTGGCCTCACCCTCCCCAGTG 60

Qy         91 CGCGGAAGCTGAGTGCAGGGTTCAGACCCACGCGGCGAGCAGCTCTTCAGTGAAGAAGGA 150
Db         61 CACTGAAGAAGGTAACCGGGTCCAGACCCACGCGGCGCCAGTTCTCCGGCGGGAAGGAAA 120

Qy        151 AGCAATCGGAGGGTCAGCAATGAACGTGGAGCATGAGGTTAACCTCCTGGTGGAGGAAAT 210
Db        121 ACCGCGCAGAGAGGCAGCAATGAATGTGGATCACGAGGTTAACCTCTTAGTGGAGGAAAT 180

Qy        211 TCATCGTCTGGGTTCCAAAAATGCCGATGGGAAACTGAG--TGTGAAGTTTGGGGTCCTC 268
Db        181 TCATCGTTTGGGTTCAAAAAATGCTGATGGAAAGTTAAGCCGTGAAATTTTGGGGTCCTC 240

Qy        269 TTCCAAGACGACAGATGTGCCAATCTCTTTGAAGCGTTGGTGGGAACTCTGAAAGCCGC- 327
Db        241 TTCCGTGATGATAAATGTGCCAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCA 300

Qy        328 AAAACGAAGGAAGATTGTTACGTACGCAGGAGAGCTGCTTTTGCAAGGTGTTCATGATGA 387
Db        301 AAAACGAAGGAAGATTGTAACATATCCAGGAGAGCTGCTTCTGCAAGGTGTTCATGATGA 360

Qy        388 TGTTGACATTGTATTGCTGCAAGATTAATGTGGTTTGCAGATCTGGGGGTA--------- 438
Db        361 TGTTGACATTATATTACTGCAAGATTAATGTGGTTTACATATCTTTATGTACTGCCATTT 420

Qy        439 ------TCTGGTAAACTGGAATAATTAAGTTAAAGGACAAACAT---GAAGTTCCTTATG 489
Db        421 TTTGTTTCTGGTAAACTGGAAT-ATAAAGTGAAAGAACAAACATTTGAACATACTTAATG 479

Qy        490 TATTTTTATAGACCTTTGTAAACAAAAGGGGA--CTTGTTGAGAAGTCCTGTTTTTATAC 547
Db        480 TATTTTTATAGAACTTTGTAAACGAAAGGAGATTCATGTTTTAGAAGTCTGTCCTTTTTT 539

Qy        548 CTTGGAGCAAAACATTACAATGTAAAAATAAACAAAACCTGTTATTTTTTTTTTCTTAAG 607
Db        540 ATATCTTGAAAGAAAATCTATGTATGATGCTATAAAATAAATCCTATTATTTTTCTCAGG 599

Qy        608 AAGGTAATCGGGAGACGTAGGCAATAAAATGTTTTCAGAGGTGCGAAAAAGCTTTTGTTT 667
Db        600 AATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGCGGGGCAGGGATGGGAATGTTTGT 659

Qy        668 TCTTAAACCATTCTTAGTCT--CTGCCACACTTGACACTCCGTCAAAGTGAGAAGCGAAC 725
Db        660 TCATAAATAATTAGACATTTTCTATAGATATTTGACATTCTGCGAAAGCAACAAGCAAAC 719

Qy        726 TAAAGACCAACTGCGGTGGAAAATATTATGTTTATGTAATAAAAAAAA 773
Db        720 TGAAGACCAACTCCTATGAGAAATATTATGATGTTTATGTAATAAAGA 767
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RESULT 3
US-09-032-684-20

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; Sequence 20, Application US/09032684
; Patent No. 5882874
;  GENERAL INFORMATION:
;    APPLICANT:  Fisher, Paul B.
;    TITLE OF INVENTION:  RECIPROCAL SUBTRACTION DIFFERENTIAL
;    TITLE OF INVENTION:  DISPLAY
;    NUMBER OF SEQUENCES:  24
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Cooper & Dunham LLP
;      STREET:  1185 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10036
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/032,684
;      FILING DATE:
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  White, John P.
;      REGISTRATION NUMBER:  28,678
;      REFERENCE/DOCKET NUMBER:  55551/JPW/AMG
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 278-0400
;      TELEFAX:  (212) 391-0525
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  177 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
US-09-032-684-20

  Query Match             20.1%;  Score 157;  DB 2;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 5.6e-37;
  Matches  157;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        624 GTAGGCAATAAAATGTTTTCAGAGGTGCGAAAAAGCTTTTGTTTTCTTAAACCATTCTTA 683
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 GTAGGCAATAAAATGTTTTCAGAGGTGCGAAAAAGCTTTTGTTTTCTTAAACCATTCTTA 60

Qy        684 GTCTCTGCCACACTTGACACTCCGTCAAAGTGAGAAGCGAACTAAAGACCAACTGCGGTG 743
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 GTCTCTGCCACACTTGACACTCCGTCAAAGTGAGAAGCGAACTAAAGACCAACTGCGGTG 120

Qy        744 GAAAATATTATGTTTATGTAATAAAAAAAAATCATGT 780
              |||||||||||||||||||||||||||||||||||||
Db        121 GAAAATATTATGTTTATGTAATAAAAAAAAATCATGT 157


RESULT 4
US-09-644-460-20
; Sequence 20, Application US/09644460
; Patent No. 6657053
; GENERAL INFORMATION:
;  APPLICANT: Fisher, Paul B.
;  TITLE OF INVENTION: Reciprocal Subtraction Differential
;  TITLE OF INVENTION:  Display
;  FILE REFERENCE: 34587-C-PCT-USA
;  CURRENT APPLICATION NUMBER: US/09/644,460
;  CURRENT FILING DATE:  2000-08-23
;  PRIOR APPLICATION NUMBER: PCT/US99/04323
;  PRIOR FILING DATE: 1999-02-26
;  PRIOR APPLICATION NUMBER: US 09/197,889
;  PRIOR FILING DATE: 1998-11-23
;  PRIOR APPLICATION NUMBER: US 09/185,115
;  PRIOR FILING DATE: 1998-11-03
;  PRIOR APPLICATION NUMBER: US 09/032,684
;  PRIOR FILING DATE: 1998-02-27
;  NUMBER OF SEQ ID NOS: 42
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 20
;   LENGTH: 177
;   TYPE: DNA
;   ORGANISM: homo sapiens
US-09-644-460-20

  Query Match             20.1%;  Score 157;  DB 4;  Length 177;
  Best Local Similarity   100.0%;  Pred. No. 5.6e-37;
  Matches  157;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy        624 GTAGGCAATAAAATGTTTTCAGAGGTGCGAAAAAGCTTTTGTTTTCTTAAACCATTCTTA 683
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 GTAGGCAATAAAATGTTTTCAGAGGTGCGAAAAAGCTTTTGTTTTCTTAAACCATTCTTA 60

Qy        684 GTCTCTGCCACACTTGACACTCCGTCAAAGTGAGAAGCGAACTAAAGACCAACTGCGGTG 743
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 GTCTCTGCCACACTTGACACTCCGTCAAAGTGAGAAGCGAACTAAAGACCAACTGCGGTG 120

Qy        744 GAAAATATTATGTTTATGTAATAAAAAAAAATCATGT 780
              |||||||||||||||||||||||||||||||||||||
Db        121 GAAAATATTATGTTTATGTAATAAAAAAAAATCATGT 157


RESULT 5
US-09-621-976-17956
; Sequence 17956, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
;  APPLICANT: Dumas Milne Edwards, J.B.
;  APPLICANT:  Jobert, S.
;  APPLICANT:  Giordano, J.Y.
;  TITLE OF INVENTION: ESTs and Encoded Human Proteins.
;  FILE REFERENCE: GENSET.054PR2
;  CURRENT APPLICATION NUMBER: US/09/621,976
;  CURRENT FILING DATE:  2000-07-21
;  NUMBER OF SEQ ID NOS: 19335
;  SOFTWARE: Patent.pm
; SEQ ID NO 17956
;   LENGTH: 219
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-621-976-17956

  Query Match             6.3%;  Score 49.4;  DB 4;  Length 219;
  Best Local Similarity   57.9%;  Pred. No. 4.5e-05;
  Matches  106;  Conservative    0;  Mismatches   76;  Indels    1;  Gaps    1;

Qy        592 TTTTTTTTTTCTTAAGAAGGTAATCGGGAGACGTAGGCAATAAAATGTTTTCAGAGGTGC 651
              | || |||||||| | |||  |  |  |||   | |||||||| | || ||||  | ||
Db          2 TATTATTTTTCTCAGGAATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGCGGGGCAG 61

Qy        652 GAAAAAGCTTTTGTTTTCTTAAACCATT-CTTAGTCTCTGCCACACTTGACACTCCGTCA 710
              | |   |  | | | ||| ||||  |||    | | |||        ||      | | |
Db         62 GGATGGGAATGTTTGTTCATAAATAATTAGACATTTTCTATAGATATTTGACATTCTGCG 121

Qy        711 AAGTGAGAAGCGAACTAAAGACCAACTGCGGTGGAAAATATTATGTTTATGTAATAAAAA 770
              ||   | |||| |||| |||||||||| |  ||  |||||||||| | |    ||| ||
Db        122 AAACAACAAGCAAACTGAAGACCAACTCCTATGAGAAATATTATGATGTTTATGTAATAA 181

Qy        771 AAA 773
              | |
Db        182 AGA 184


RESULT 6
US-08-232-463-14/c
; Sequence 14, Application US/08232463
; Patent No. 5670367
;  GENERAL INFORMATION:
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;    APPLICANT:  DORNER, F.
;    APPLICANT:  SCHEIFLINGER, F.
;    APPLICANT:  FALKNER, F. G.
;    TITLE OF INVENTION:  RECOMBINANT FOWLPOX VIRUS
;    NUMBER OF SEQUENCES:  52
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Foley & Lardner
;      STREET:  1800 Diagonal Road, Suite 500
;      CITY:  Alexandria
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  22313-0299
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/232,463
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/935,313
;      FILING DATE:
;      APPLICATION NUMBER:  EP 91 114 300.6
;      FILING DATE:  26-AUG-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  BENT, Stephen A.
;      REGISTRATION NUMBER:  29,768
;      REFERENCE/DOCKET NUMBER:  30472/114 IMMU
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703)836-9300
;      TELEFAX:  (703)683-4109
;      TELEX:  899149
;  INFORMATION FOR SEQ ID NO:  14:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  7218 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      CLONE:  pTZgpt-F1s
US-08-232-463-14

  Query Match             5.6%;  Score 44;  DB 1;  Length 7218;
  Best Local Similarity   14.1%;  Pred. No. 0.011;
  Matches   80;  Conservative  214;  Mismatches  274;  Indels    0;  Gaps    0;

Qy         78 TTCCTCCCTAGGGCGCGGAAGCTGAGTGCAGGGTTCAGACCCACGCGGCGAGCAGCTCTT 137
              ||  | |  :::: : :::::  ::: : ::::   :::   : : :: ::: ::
Db       1441 TTGGTACRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1382

Qy        138 CAGTGAAGAAGGAAGCAATCGGAGGGTCAGCAATGAACGTGGAGCATGAGGTTAACCTCC 197
              :: :::::::::: ::  ::::::  :: :: ::: : :::: : ::::  ::
Db       1381 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1322

Qy        198 TGGTGGAGGAAATTCATCGTCTGGGTTCCAAAAATGCCGATGGGAAACTGAGTGTGAAGT 257
              :: ::::::::   :  :   :::    ::::: :  :: ::::::  ::: : ::::
Db       1321 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1262

Qy        258 TTGGGGTCCTCTTCCAAGACGACAGATGTGCCAATCTCTTTGAAGCGTTGGTGGGAACTC 317
                ::::         :::: :: ::: : :  ::        :::: :  :: :::::
Db       1261 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1202

Qy        318 TGAAAGCCGCAAAACGAAGGAAGATTGTTACGTACGCAGGAGAGCTGCTTTTGCAAGGTG 377
              :::::  : :::: :::::::::  :  : : : : :::::::  :     : :::: :
Db       1201 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1142

Qy        378 TTCATGATGATGTTGACATTGTATTGCTGCAAGATTAATGTGGTTTGCAGATCTGGGGGT 437
                : :: :: :  :: :  : :  :  : ::::  :: : ::   : :::   :::::
Db       1141 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1082

Qy        438 ATCTGGTAAACTGGAATAATTAAGTTAAAGGACAAACATGAAGTTCCTTATGTATTTTTA 497
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                :  :: :::  :::||    |  |     |||   ||   |    |  |  || || |
Db       1081 RRRRRRRRRRRRRRRATCGCAAGCTCCCTCGACCTGCAGCCAAGCTCGGAATTAATTCTG 1022

Qy        498 TAGACCTTTGTAAACAAAAGGGGACTTGTTGAGAAGTCCTGTTTTTATACCTTGGAGCAA 557
              |   | | ||  ||   ||||  |  | | | | |  |    |                |
Db       1021 TGAGCGTATGGCAAACGAAGGAAAAATAGTTATAGTAGCCGCACTCGATGGGACATTTCA 962

Qy        558 AACATTACAATGTAAAAATAAACAAAACCTGTTATTTTTTTTTTCTTAAGAAGGTAATCG 617
              |     ||  | ||| ||||     || ||  |    || | |       | |  || |
Db        961 ACGTAAACCGTTTAATAATATTTTGAATCTTATTCCATTATCTGAAATGGTGGTAAAACT 902

Qy        618 GGAGACGTAGGCAATAAAATGTTTTCAG 645
                |   |   || ||||| ||| ||
Db        901 AACTGCTGTGTGTATGAAATGCTTTAAG 874
```

```
RESULT 7
US-09-621-976-2813
; Sequence 2813, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
;  APPLICANT: Dumas Milne Edwards, J.B.
;  APPLICANT:  Jobert, S.
;  APPLICANT:  Giordano, J.Y.
;  TITLE OF INVENTION: ESTs and Encoded Human Proteins.
;  FILE REFERENCE: GENSET.054PR2
;  CURRENT APPLICATION NUMBER: US/09/621,976
;  CURRENT FILING DATE:  2000-07-21
;  NUMBER OF SEQ ID NOS: 19335
;  SOFTWARE: Patent.pm
; SEQ ID NO 2813
;   LENGTH: 832
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: 235..399
US-09-621-976-2813

  Query Match             5.5%;  Score 42.6;  DB 4;  Length 832;
  Best Local Similarity   9.7%;  Pred. No. 0.0093;
  Matches   21;  Conservative  116;  Mismatches   80;  Indels    0;  Gaps    0;

Qy        375 GTGTTCATGATGATGTTGACATTGTATTGCTGCAAGATTAATGTGGTTTGCAGATCTGGG 434
              :::::: :::: :: :::: ::::::|:::::: :  ::::   :| :::: : :| |:::
Db         22 SWSYWMYWKWYYMKTYWRWRRKKKKAWWKYWKTWTWWYWRYAMWGTYKKKAMCRTKTKKK 81

Qy        435 GGTATCTGGTAAACTGGAATAATTAAGTTAAAGGACAAACATGAAGTTCCTTATGTATTT 494
              ::: :::  :: :  : :| :  |: |:   :: :::::::    : :: :|     : :
Db         82 KKKGYMWMWYWGWRRSYMAMWTRTWTGYAYYRSMMYWWRYRCWKKKAYYRKTTCYSSKGW 141

Qy        495 TTATAGACCTTTGTAAACAAAAGGGGACTTGTTGAGAAGTCCTGTTTTTATACCTTGGAG 554
              |::::   :|| ::   :|  : :   :|:: :|:: :  :: : :::: : ::::
Db        142 TWWKRWKKAWTTWWWKKTYYWAATRYWWMMCWTKRWRASWWYCWWWGKARKWSTWRKSRS 201

Qy        555 CAAAACATTACAATGTAAAAATAAACAAAACCTGTTA 591
              :| |::|:  |   :: |: :: :: ::::  : | |
Db        202 YASARSAKRCCYSCSWGAMSWKYMWRMWRWRGWATGA 238
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RESULT 8
US-09-385-982-376
; Sequence 376, Application US/09385982
; Patent No. 6262334
; GENERAL INFORMATION:
;  APPLICANT: ENDEGE, WILSON O., ET AL.
;  TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
;  TITLE OF INVENTION: PRODUCTS:  II
;  FILE REFERENCE: CCDNA-260XX
;  CURRENT APPLICATION NUMBER: US/09/385,982
;  CURRENT FILING DATE: 1999-08-30
;  EARLIER APPLICATION NUMBER: 09/328,111
;  EARLIER FILING DATE: 1999-06-08
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;  EARLIER APPLICATION NUMBER: 60/117,393
;  EARLIER FILING DATE: 1999-01-27
;  EARLIER APPLICATION NUMBER: 60/098,639
;  EARLIER FILING DATE: 1998-08-31
;  NUMBER OF SEQ ID NOS: 544
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 376
;   LENGTH: 611
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)...(611)
;   OTHER INFORMATION: n = A,T,C or G
US-09-385-982-376

  Query Match             5.1%;  Score 40;  DB 3;  Length 611;
  Best Local Similarity   62.6%;  Pred. No. 0.046;
  Matches  107;  Conservative    0;  Mismatches   54;  Indels   10;  Gaps    3;

Qy        436 GTATCTGGTAAACTGGAATAATTAAGTTAAAGGACAAACAT---GAAGTTCCTTATGTAT 492
              || || ||||||| ||||| || | |  |||| |||||| |    |  | | | ||| ||
Db        325 GTTTCNGGTAAACNGGAAT-ATAANGNGAAAGAACAAACNTTGGAACATACTTAATGGAT 383

Qy        493 TTTTATAGACCTTTGTAAACAAAAGGGGACTTGT------TGAGAAGTCCTGTTTTTATA 546
              |||||||||| ||||| |||| ||||| || |  |         ||      |  ||||||||
Db        384 TTTTATAGAACTTTGNAAACCAAAGGAGATTCATGTTTTANAAGTCTGGCCTTTTTTATA 443

Qy        547 CCTTGGAGCAAAACATTACAATGTAAAAATAAACAAAACCTGTTATTTTTT 597
               ||||||  ||||    |       |       |||| ||| ||  |||||||
Db        444 TCTTGGAAGAAAATTATGTNTGGAGGCTNTAAATAAATCCCATTATTTTCT 494


RESULT 9
US-09-621-976-16656
; Sequence 16656, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
;  APPLICANT: Dumas Milne Edwards, J.B.
;  APPLICANT:  Jobert, S.
;  APPLICANT:  Giordano, J.Y.
;  TITLE OF INVENTION: ESTs and Encoded Human Proteins.
;  FILE REFERENCE: GENSET.054PR2
;  CURRENT APPLICATION NUMBER: US/09/621,976
;  CURRENT FILING DATE:  2000-07-21
;  NUMBER OF SEQ ID NOS: 19335
;  SOFTWARE: Patent.pm
; SEQ ID NO 16656
;   LENGTH: 430
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-621-976-16656

  Query Match             5.1%;  Score 39.6;  DB 4;  Length 430;
  Best Local Similarity   17.1%;  Pred. No. 0.051;
  Matches   42;  Conservative  100;  Mismatches  104;  Indels    0;  Gaps    0;

Qy          2 GCACGAGCTCTCCTCGTCCCCTCCCTTCTCCACTGCAGCCTTTCTCTTAGCCCGAACCAC 61
              ||  | |||      |  |::: :||::: :    :| |      ::::: |:|::|:|| |
Db         20 GCCTGGGCTTCTGCCMMCMMMRSCCYWMCSGGRRSCSGRAMCCYYYKKKGSCSRAMCCCC 79

Qy         62 TTCCTTCTTCTGCTTGTTCCTCCCTAGGGCGCGGAAGCTGAGTGCAGGGTTCAGACCCAC 121
              :|:|:::  :      ||   :: :::: : ::::: :: ::   : :: :  : |||
Db         80 YTYCYKSCCSSYKGSYTTKRAMMWKRRSCYTYSRRRMYYYWRSYWMMRSMWKGSCCCCSG 139

Qy        122 GCGGCGAGCAGCTCTTCAGTGAAGAAGGAAGCAATCGGAGGGTCAGCAATGAACGTGGAG 181
              |:   : :  :  : :::: :     ::|: ::: ||    :  ::::    | ::::
Db        140 GSCYKKKKKGKKGSCCMRSYWMCCYYYKRARRMMWKGGSCMMYTKRMMRRMCCCCMRRRS 199

Qy        182 CATGAGGTTAACCTCCTGGTGGAGGAAATTCATCGTCTGGGTTCCAAAAATGCCGATGGG 241
              :: ::   :  ::|:|::: : :  |:::: |  ::     |:  ::::: || :::|:
Db        200 MRRRRMCMWKGSYTYCYKSSSMMCMARRWKRARGKKRMCCYTKGGGRMMRKYCCMRKKGR 259

Qy        242 AAACTG 247
               :| |||
Db        260 RACCTG 265


RESULT 10
US-08-117-083-23
; Sequence 23, Application US/08117083
; Patent No. 5719054
;  GENERAL INFORMATION:
;    APPLICANT:  Boursnell, Michael E.
;    APPLICANT:  Inglis, Stephen C.
;    APPLICANT:  Munro, Alan J.
;    TITLE OF INVENTION:  Recombinant Virus Vectors Encoding Human
;    TITLE OF INVENTION:  Papilloma Virus Proteins
;    NUMBER OF SEQUENCES:  70
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Walter H. Dreger
;      STREET:  4 Embarcadero Center, Suite 3400
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/117,083
;      FILING DATE:  10-SEP-1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Dreger, Walter H.
;      REGISTRATION NUMBER:  24,190
;      REFERENCE/DOCKET NUMBER:  A-58783
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-781-1989
;      TELEFAX:  415-398-3249
;      TELEX:  910 277299
;  INFORMATION FOR SEQ ID NO:  23:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  720 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
US-08-117-083-23

  Query Match             4.9%;  Score 38;  DB 1;  Length 720;
  Best Local Similarity   49.5%;  Pred. No. 0.2;
  Matches   98;  Conservative    0;  Mismatches  100;  Indels    0;  Gaps    0;

Qy        351 ACGCAGGAGAGCTGCTTTTGCAAGGTGTTCATGATGATGTTGACATTGTATTGCTGCAAG 410
              | || |  | ||||  ||||||   ||  ||  || ||| |       || |  ||  |
Db        296 ATGCTGTTGTGCTGTGTTTGCAGATTGGCCAGAATCATGGTATATGGATACTAATGGTAT 355

Qy        411 ATTAATGTGGTTTGCAGATCTGGGGGTATCTGGTAAACTGGAATAATTAAGTTAAAGGAC 470
                 | ||  | | |||||    |||| ||   || |       |||||||  |||  ||
Db        356 CAAGAAGTATTCTCCAGATGAATGGGTGTCACATATAAAATTTTAATTAATGTAATAGAG 415

Qy        471 AAACATGAAGTTCCTTATGTATTTTTATAGACCTTTGTAAACAAAAGGGGACTTGTTGAG 530
              ||  |  ||     || |   | |||||||  |   |||||      | |    ||
Db        416 AACAAATAATAAGGTTGTAATATCATATAGACAATAACTAACAATTAATTAGTAACTGTT 475

Qy        531 AAGTCCTGTTTTTATACC 548
              |  || | |||   || |
Db        476 ATCTCTTTTTTAACTAAC 493


RESULT 11
US-08-117-083-67
; Sequence 67, Application US/08117083
```

```
; Patent No. 5719054
;  GENERAL INFORMATION:
;    APPLICANT:  Boursnell, Michael E.
;    APPLICANT:  Inglis, Stephen C.
;    APPLICANT:  Munro, Alan J.
;    TITLE OF INVENTION:  Recombinant Virus Vectors Encoding Human
;    TITLE OF INVENTION:  Papilloma Virus Proteins
;    NUMBER OF SEQUENCES:  70
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Walter H. Dreger
;      STREET:  4 Embarcadero Center, Suite 3400
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/117,083
;      FILING DATE:  10-SEP-1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Dreger, Walter H.
;      REGISTRATION NUMBER:  24,190
;      REFERENCE/DOCKET NUMBER:  A-58783
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-781-1989
;      TELEFAX:  415-398-3249
;      TELEX:  910 277299
;  INFORMATION FOR SEQ ID NO:  67:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1500 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  double
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
US-08-117-083-67

  Query Match             4.9%;  Score 38;  DB 1;  Length 1500;
  Best Local Similarity   49.5%;  Pred. No. 0.29;
  Matches   98;  Conservative    0;  Mismatches  100;  Indels    0;  Gaps    0;

Qy        351 ACGCAGGAGAGCTGCTTTTGCAAGGTGTTCATGATGATGTTGACATTGTATTGCTGCAAG 410
              | || |  | ||||  ||||||   ||  ||  || ||| |         || |  ||  |
Db        743 ATGCTGTTGTGCTGTGTTTGCAGATTGGCCAGAATCATGGTATATGGATACTAATGGTAT 802

Qy        411 ATTAATGTGGTTTGCAGATCTGGGGGTATCTGGTAAACTGGAATAATTAAGTTAAAGGAC 470
                | ||  | | |||||    ||||  ||   || |       |||||||  |||  ||
Db        803 CAAGAAGTATTCTCCAGATGAATGGGTGTCACATATAAAATTTTAATTAATGTAATAGAG 862

Qy        471 AAACATGAAGTTCCTTATGTATTTTTATAGACCTTTGTAAACAAAAGGGGACTTGTTGAG 530
              ||  |  ||     || |     | |||||| |    |||||       |  |   ||
Db        863 AACAAATAATAAGGTTGTAATATCATATAGACAATAACTAACAATTAATTAGTAACTGTT 922

Qy        531 AAGTCCTGTTTTTATACC 548
              |  || | |||   || |
Db        923 ATCTCTTTTTTAACTAAC 940


RESULT 12
US-09-357-206A-6/c
; Sequence 6, Application US/09357206A
; Patent No. 6372962
; GENERAL INFORMATION:
;  APPLICANT:  Dinesh-Kumar, S.
;  APPLICANT:  Baker, Barbara
;  TITLE OF INVENTION:  Pathogen Resistance in Plants using cDNA-N/Intron Constructs
;  FILE REFERENCE:  042250/191805 (5830-5)
;  CURRENT APPLICATION NUMBER: US/09/357,206A
;  CURRENT FILING DATE:  1999-07-20
;  PRIOR APPLICATION NUMBER:  US 60/093,494
;  PRIOR FILING DATE:  1998-07-20
;  NUMBER OF SEQ ID NOS:  22
;  SOFTWARE:  PatentIn version 3.0
; SEQ ID NO 6
;  LENGTH: 1818
;  TYPE: DNA
;  ORGANISM: Nicotiana glutinosa
US-09-357-206A-6

  Query Match             4.7%;  Score 37;  DB 4;  Length 1818;
  Best Local Similarity   50.7%;  Pred. No. 0.63;
  Matches  115;  Conservative    0;  Mismatches  110;  Indels    2;  Gaps    1;

Qy        390 TTGACATTGTATTGCTGCAAGATTAATGTGGTTTGCAGATCTGGGGGTATCTGGTAAACT 449
              ||||  |   |  ||    | |||| | | || || | ||       ||| |  || |
Db       1490 TTGAATTACGAGGGCCAACACATTATTTTTGTGTGAATATAGAAATTTATTTTTTATATA 1431

Qy        450 GGAATAATTA--AGTTAAAGGACAAACATGAAGTTCCTTATGTATTTTTATAGACCTTTG 507
              | | |||||   |||||   ||  |    | ||   |||| ||| ||||||     ||
Db       1430 TGGAAAATTACTTGTTAAGAAACTGAATAAAGGTAAATTATTTATATTTATACTATATTA 1371

Qy        508 TAAACAAAAGGGGACTTGTTGAGAAGTCCTGTTTTTATACCTTGGAGCAAAACATTACAA 567
              ||  | || ||  |||  ||          ||||||  | ||  |   |||  |||||
Db       1370 AAATTACAAAGGCTCTTAATGTCGTTCGTCTTTTTTACCCTTTAAAAATAAATTTTACAC 1311

Qy        568 TGTAAAAATAAACAAAACCTGTTATTTTTTTTTTCTTAAGAAGGTAA 614
              |  |  ||   | |       |||| |||| |  | || || |  | |
Db       1310 TAGACGAAATTATATTTTAAGTTAATTTTCTAATATTTAGGATTTTA 1264


RESULT 13
US-09-357-206A-16/c
; Sequence 16, Application US/09357206A
; Patent No. 6372962
; GENERAL INFORMATION:
;  APPLICANT:  Dinesh-Kumar, S.
;  APPLICANT:  Baker, Barbara
;  TITLE OF INVENTION:  Pathogen Resistance in Plants using cDNA-N/Intron Constructs
;  FILE REFERENCE:  042250/191805 (5830-5)
;  CURRENT APPLICATION NUMBER: US/09/357,206A
;  CURRENT FILING DATE:  1999-07-20
;  PRIOR APPLICATION NUMBER:  US 60/093,494
;  PRIOR FILING DATE:  1998-07-20
;  NUMBER OF SEQ ID NOS:  22
;  SOFTWARE:  PatentIn version 3.0
; SEQ ID NO 16
;  LENGTH: 5253
;  TYPE: DNA
;  ORGANISM: Artificial
;  FEATURE:
;  OTHER INFORMATION: cDNA-N/intron construct: E1-E2-E3-I3-E4-E5
US-09-357-206A-16

  Query Match             4.7%;  Score 37;  DB 4;  Length 5253;
  Best Local Similarity   50.7%;  Pred. No. 1.1;
  Matches  115;  Conservative    0;  Mismatches  110;  Indels    2;  Gaps    1;

Qy        390 TTGACATTGTATTGCTGCAAGATTAATGTGGTTTGCAGATCTGGGGGTATCTGGTAAACT 449
              ||||  |   |  ||    | |||| | | || || | ||       ||| |  || |
Db       3338 TTGAATTACGAGGGCCAACACATTATTTTTGTGTGAATATAGAAATTTATTTTTTATATA 3279

Qy        450 GGAATAATTA--AGTTAAAGGACAAACATGAAGTTCCTTATGTATTTTTATAGACCTTTG 507
              | | |||||   |||||   ||  |    | ||   |||| ||| ||||||     ||
Db       3278 TGGAAAATTACTTGTTAAGAAACTGAATAAAGGTAAATTATTTATATTTATACTATATTA 3219

Qy        508 TAAACAAAAGGGGACTTGTTGAGAAGTCCTGTTTTTATACCTTGGAGCAAAACATTACAA 567
              ||  | || ||  |||  ||          ||||||  | ||  |   |||  |||||
Db       3218 AAATTACAAAGGCTCTTAATGTCGTTCGTCTTTTTTACCCTTTAAAAATAAATTTTACAC 3159

Qy        568 TGTAAAAATAAACAAAACCTGTTATTTTTTTTTTCTTAAGAAGGTAA 614
              |  |  ||   | |       |||| |||| |  | || || |  | |
Db       3158 TAGACGAAATTATATTTTAAGTTAATTTTCTAATATTTAGGATTTTA 3112
```

RESULT 14
US-09-357-206A-17/c
; Sequence 17, Application US/09357206A
; Patent No. 6372962
; GENERAL INFORMATION:
; APPLICANT: Dinesh-Kumar, S.
; APPLICANT: Baker, Barbara
; TITLE OF INVENTION: Pathogen Resistance in Plants using cDNA-N/Intron Constructs
; FILE REFERENCE: 042250/191805 (5830-5)
; CURRENT APPLICATION NUMBER: US/09/357,206A
; CURRENT FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: US 60/093,494
; PRIOR FILING DATE: 1998-07-20
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 17
; LENGTH: 5483
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: cDNA-N/intron construct: E1-I1-E2-E3-I3-E4-E5
US-09-357-206A-17

Query Match 4.7%; Score 37; DB 4; Length 5483;
Best Local Similarity 50.7%; Pred. No. 1.1;
Matches 115; Conservative 0; Mismatches 110; Indels 2; Gaps 1;

```
Qy        390 TTGACATTGTATTGCTGCAAGATTAATGTGGTTTGCAGATCTGGGGGTATCTGGTAAACT 449
              |||| |  | ||   | |||| | | || || | ||       ||| |  || |
Db       3568 TTGAATTACGAGGGCCAACACATTATTTTTGTGTGAATATAGAAATTTATTTTTTATATA 3509

Qy        450 GGAATAATTA--AGTTAAAGGACAAACATGAAGTTCCTTATGTATTTTTATAGACCTTTG 507
              | | |||||  |||||  ||  |   | ||  |||| ||| ||||||    ||
Db       3508 TGGAAAATTACTTGTTAAGAAACTGAATAAAGGTAAATTATTTATATTTATACTATATTA 3449

Qy        508 TAAACAAAAGGGGACTTGTTGAGAAGTCCTGTTTTTATACCTTGGAGCAAAACATTACAA 567
              ||  | || ||  ||| ||          ||||||  | ||  |   ||| |||||
Db       3448 AAATTACAAAGGCTCTTAATGTCGTTCGTCTTTTTTACCCTTTAAAAATAAATTTTACAC 3389

Qy        568 TGTAAAAATAAACAAAACCTGTTATTTTTTTTTTCTTAAGAAGGTAA 614
              |  |  ||   | |      |||| |||| |  | || || |  | |
Db       3388 TAGACGAAATTATATTTTAAGTTAATTTTCTAATATTTAGGATTTTA 3342
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RESULT 15
US-09-357-206A-19/c
; Sequence 19, Application US/09357206A
; Patent No. 6372962
; GENERAL INFORMATION:
; APPLICANT: Dinesh-Kumar, S.
; APPLICANT: Baker, Barbara
; TITLE OF INVENTION: Pathogen Resistance in Plants using cDNA-N/Intron Constructs
; FILE REFERENCE: 042250/191805 (5830-5)
; CURRENT APPLICATION NUMBER: US/09/357,206A
; CURRENT FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: US 60/093,494
; PRIOR FILING DATE: 1998-07-20
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 19
; LENGTH: 5586
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: cDNA-N/intron construct: E1-E2-E3-I3-E4-I4-E5
US-09-357-206A-19

Query Match 4.7%; Score 37; DB 4; Length 5586;
Best Local Similarity 50.7%; Pred. No. 1.1;
Matches 115; Conservative 0; Mismatches 110; Indels 2; Gaps 1;

```
Qy        390 TTGACATTGTATTGCTGCAAGATTAATGTGGTTTGCAGATCTGGGGGTATCTGGTAAACT 449
              |||| |  | ||   | |||| | | || || | ||       ||| |  || |
Db       3338 TTGAATTACGAGGGCCAACACATTATTTTTGTGTGAATATAGAAATTTATTTTTTATATA 3279

Qy        450 GGAATAATTA--AGTTAAAGGACAAACATGAAGTTCCTTATGTATTTTTATAGACCTTTG 507
              | | |||||  |||||  ||  |   | ||  |||| ||| ||||||    ||
Db       3278 TGGAAAATTACTTGTTAAGAAACTGAATAAAGGTAAATTATTTATATTTATACTATATTA 3219

Qy        508 TAAACAAAAGGGGACTTGTTGAGAAGTCCTGTTTTTATACCTTGGAGCAAAACATTACAA 567
              ||  | || ||  ||| ||          ||||||  | ||  |   ||| |||||
Db       3218 AAATTACAAAGGCTCTTAATGTCGTTCGTCTTTTTTACCCTTTAAAAATAAATTTTACAC 3159

Qy        568 TGTAAAAATAAACAAAACCTGTTATTTTTTTTTTCTTAAGAAGGTAA 614
              |  |  ||   | |      |||| |||| |  | || || |  | |
Db       3158 TAGACGAAATTATATTTTAAGTTAATTTTCTAATATTTAGGATTTTA 3112
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Search completed: August 21, 2004, 15:35:32
Job time : 76.8607 secs

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